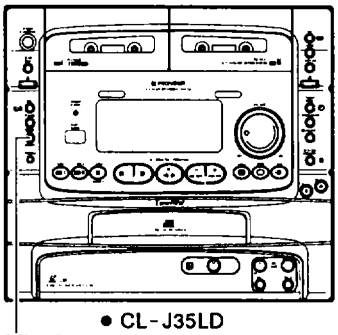
PIONEER®
The Art of Entertainment

Service Manual



● CL-J35LD

ORDER NO.
RRV1215

STEREO CLD CASSETTE DECK RECEIVER

CL-J35LD
CL-J55LD
CL-J75LD

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model			Power Requirement	The voltage can be converted by the following method.
	CL-J35LD	CL-J55LD	CL-J75LD		
KU	○	–	–	AC120V	——
SD	○	○	○	AC110 - 115/120 - 127/220 - 230/240V	With the voltage selector
SD/HO	○	○	–	AC110 - 115/120 - 127/220 - 230/240V	With the voltage selector
SL	○	○	○	AC110 - 115/120/220 - 230/240V	With the voltage selector
S/DF	–	○	–	AC110 - 115/120 - 127/220 - 230/240V	With the voltage selector
HE	○	–	○	AC220 – 230V	——
HE/FR	○	–	○	AC220 – 230V	——
HEZI/DI	○	–	○	AC220 – 230V	——
HB	–	–	○	AC230V	——

- **For the following : CL–J35LD/SD, SD/HO, SL, HE, HE/FR and HEZI/DI; CL–J55LD/SD, SD/HO, SL and S/DF; CL–J75LD/SD, SL, HE, HE/FR, HEZI/DI and HB, refer to pages 163 through 181.**

CONTENTS

1. SAFETY INFORMATION ···································· 2
2. DISASSEMBLY ··· 4
3. EXPLODED VIEWS, PACKING AND PARTS LIST ·················· 6
4. SCHEMATIC AND PCB CONNECTION DIAGRAMS ··················· 22
5. PCB PARTS LIST ·· 121
6. SELF-DIAGNOSTIC FUNCTIONS ······························ 129
7. ADJUSTMENTS ··· 131
8. IC INFORMATION ·· 151
9. FL INFORMATION ·· 155
10. BLOCK DIAGRAMS ······································· 157
11. FOR CL-J35LD/SD, SD/HO, SL, HE, HE/FR, HEZI/DI, CL-J55LD/SD, SD/HO, SL, S/DF, CL-J75LD/SD, SL, HE, HE/FR, HEZI/DI AND HB ································ 163
12. PANEL FACILITIES ····································· 182
13. SPECIFICATIONS ······································· 186

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

© PIONEER ELECTRONIC CORPORATION 1995

T-IFG JAN. 1995 Printed in Japan

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols ▮▭⊞ (fast operating fuse) and/or ▮▭⊠ (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible ▮▭⊞ (fusible de type rapide) et/ou ▮▭⊠ (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

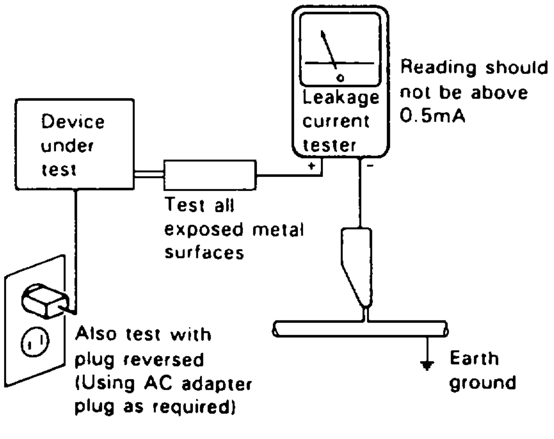
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
+
-
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

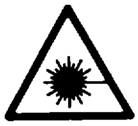
Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

(FOR EUROPEAN MODEL ONLY)

VARO!
AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

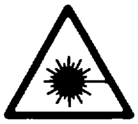


LASER
Kuva 1
Lasersateilyn varoitusmerkki

ADVERSEL:
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSAETTELSE FOR STRÅLING.

VARNING!
OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

WARNING!
DEVICE INCLUDES LASER DIODE WHICH EMITS INVISIBLE INFRARED RADIATION WHICH IS DANGEROUS TO EYES. THERE IS A WARNING SIGN ACCORDING TO PICTURE 1 INSIDE THE DEVICE CLOSE TO THE LASER DIODE.



LASER
Picture 1
Warning sign for laser radiation

IMPORTANT
THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS
MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780-785 nm

LABEL CHECK

HE, HE/FR and HEZI/DI types

VARO!
Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING!
Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.
VRW1297-A

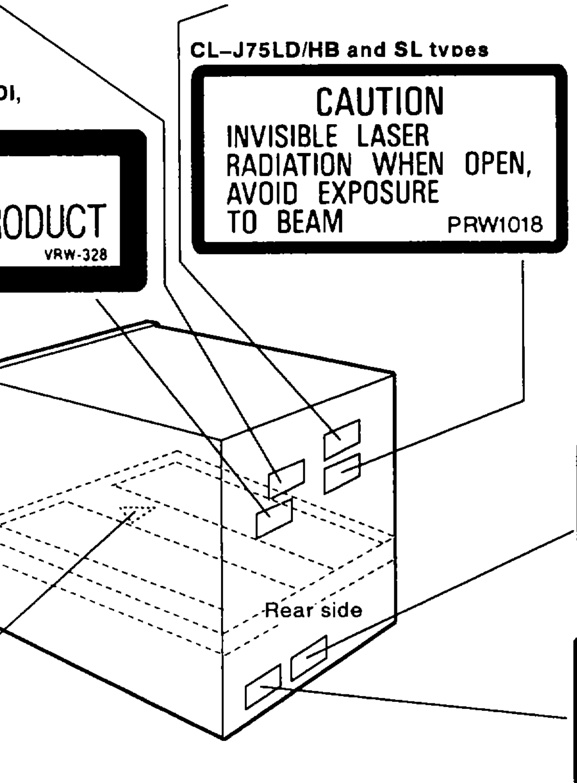
ADVARSEL
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION.
UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT!
UNSICHTBARE LASER-STRAHLUNG TRITT AUS, WENN DECKEL (ODER KLAPPE) GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN!
VRW1094

CL–J75LD/HB and SL types

CAUTION
INVISIBLE LASER
RADIATION WHEN OPEN,
AVOID EXPOSURE
TO BEAM
PRW1018

HE, HE/FR, HEZI/DI, HB and SL types

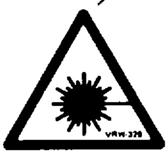
CLASS 1
LASER PRODUCT
VRW-328



CAUTION
INVISIBLE LASER
RADIATION WHEN OPEN,
AVOID EXPOSURE
TO BEAM
PRW1018

CLASS 1
LASER PRODUCT
VRW-328

CL–J35LD/SL and CL–J55LD/SL types



SL, HE, HE/FR, HEZI/DI and HB types

Additional Laser Caution

1. The ON/OFF statuses of slider-position detection switches (PARK INNER, PARK OUTER on the PKSB assembly) and loading-status detection switches (SW 1, 2 and 3 on LMSB assembly) are detected by the microprocessor (IC101 in the PTCB unit). To permit the laser diode to oscillate, it is required to set the slider-position detection switch for the LD ACTIVE status (PARK INNER : OFF, PARK OUTER : OFF), and to set the loading-status detection switch for tilt neutral state (SW1 : ON, SW2 : OFF, SW3 : ON). As long as these requirements are not satisfied, the laser diode will not oscillate. When the requirements are met in any way, the laser diode can oscillate. The laser diode oscillation will continue if pin 13 of IC801 is shorted to GND or the emitter and collector of Q834 are shorted each other (fault condition) in FTAU unit.
   In the test mode *, the laser diode oscillates when the microprocessor detects a PLAY signal or when the PLAY key is pressed (S1309:ON in the U.COM assembly), with the above requirements satisfied.
2. When the cover is open, close viewing through the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* : Refer to page 141.

2. DISASSEMBLY

2.1 TRAY (See Fig. 1 and 2)

1. Remove 13 screws to remove the bonnet.
2. Insert a finger between the front panel and SPDR UNIT, and turn the gear pulley counterclockwise (see from the top position.) until the tilt base comes to uppermost position. (Fig. 1)
3. Turn the worm gear counterclockwise (see from the front position.) to move the carriage assy from CD area to LD area. (The carriage assy moves from the center to rear of the carriage shaft.)
4. Turn the gear pulley clockwise (see from the top position.) where the tray starts to move out. Pull out the tray to enable the gear pulley to be turned by hand. (Fig. 2)
5. Tray put turn back for about 2–3 cm, then remove the tray while pressing two hooks of the tray at the same time.

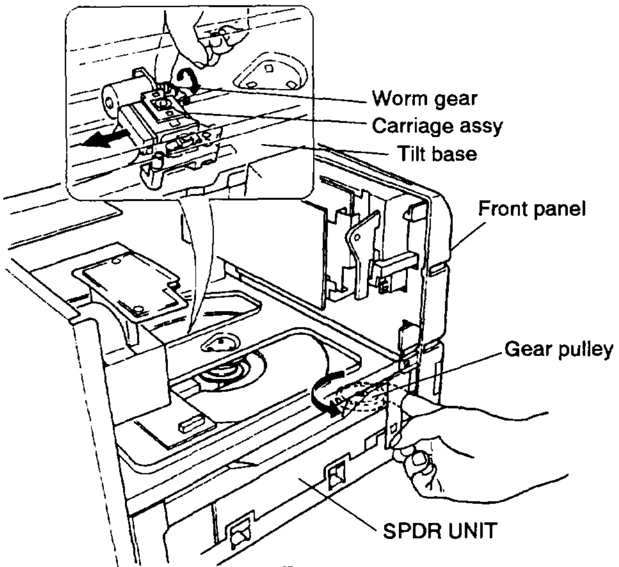

Worm gear
Carriage assy
Tilt base
Front panel
Gear pulley
SPDR UNIT

Fig. 1

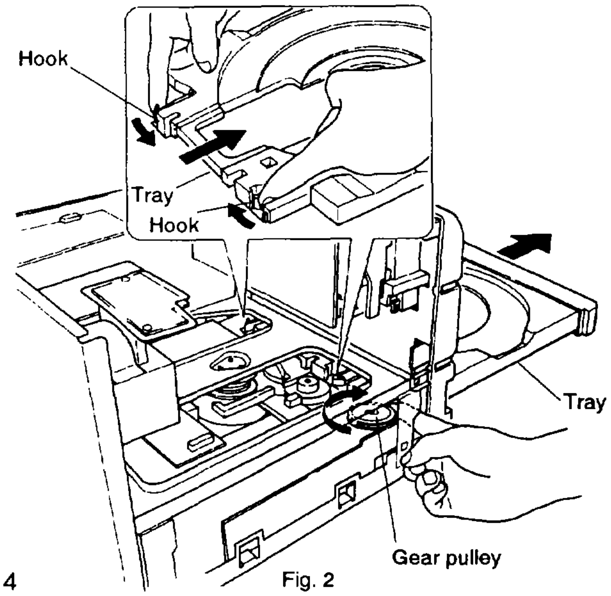
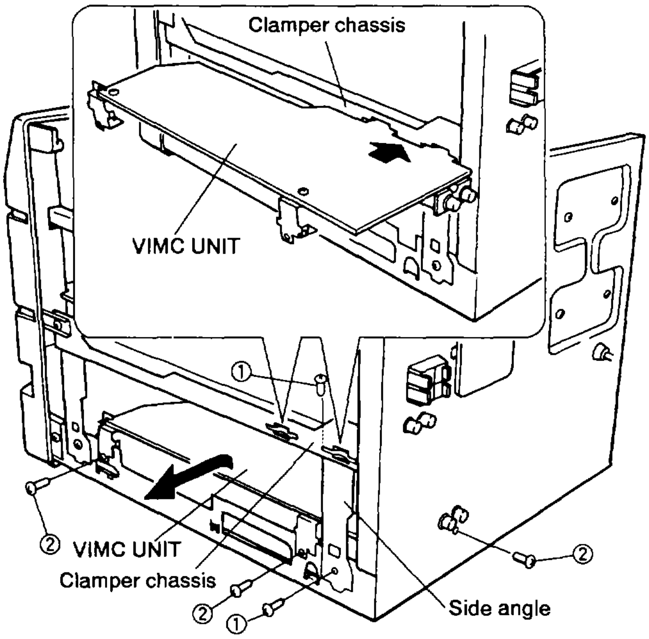

Hook
Tray
Hook
Tray
Gear pulley

Fig. 2

2.2 VIMC UNIT (See Fig. 3.)

1. Remove the bonnet and the tray. (Refer to section 2.1.)
2. Remove two screws ① to pull out the side angle.
3. Remove three screws ② to pull out the VIMC UNIT.
4. Insert the PCB to the installation hole of the clamper chassis.

- Remove five screws ② only HEZI/DI, HE, HE/FR and HB types.


Clamper chassis
VIMC UNIT
①
②
VIMC UNIT
Clamper chassis
②
①
②
Side angle

HEZI/DI, HE, HE/FR and HB types only

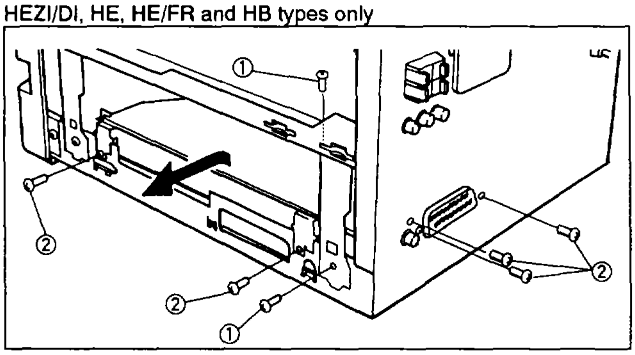


Fig. 3

2.3 PICKUP ASSY (See Fig. 4 and 5.)

1. Remove the bonnet and the tray. (Refer to section 2.1.)
2. Remove four screws ③ to remove the POWER AMP MODULE. (Fig. 4)
3. Reconnect the connector while pulling up the black portion of the connector. (Fig. 5)
4. Insert the screw driver to the hole of clamper chassis and remove a screw of the carriage shaft.
5. Remove the carriage assy with the carriage shaft.

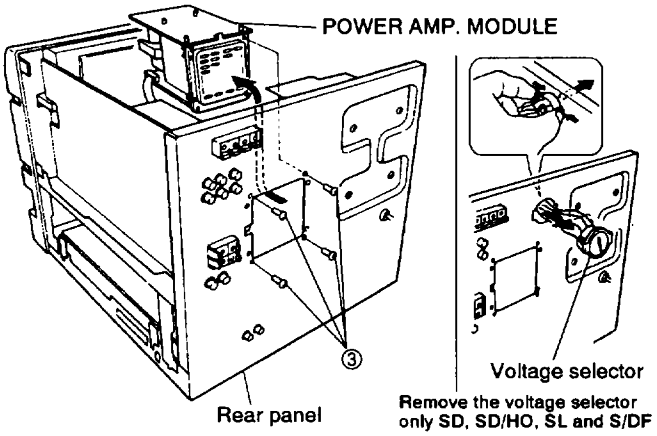
Note: when installing the pickup assy, confirm that the CA hook is meshed with the tilt base.

2.4 SPINDLE MOTOR (See Fig. 6–8.)

1. Remove the bonnet and the tray. (Refer to section 2.1.)
2. Loosen a cord holder and remove a parallel wire.(Fig. 6)
3. Turn over the player. (Fig. 7)
4. Remove the VIMC UNIT. (Refer to section 2.2.)
5. Remove four screws ④ of side angle, five screws ⑤ of rear panel and two screws ⑥ of front panel to remove the CLD section by lifting up from the rear side. At this time, if the parallel wire of CN14 of FTAU UNIT is pulled out, CLD section will be separated from the player.
6. Remove four screws ⑦ , two flexible cables and a connector to remove the mecha. assy. (Fig. 8)
7. Remove the PCB holder by sliding it in the direction of arrow and remove three screws ⑧ to remove the spindle motor.

- Caution of replacing the transistor and fuse in the SPDR UNIT

When replacing the power transistor and thermal fuse, certainly fix their with the screw and nut.


POWER AMP. MODULE
③
Rear panel
Voltage selector

Remove the voltage selector only SD, SD/HO, SL and S/DF

Fig. 4 Remove the POWER AMP. module.

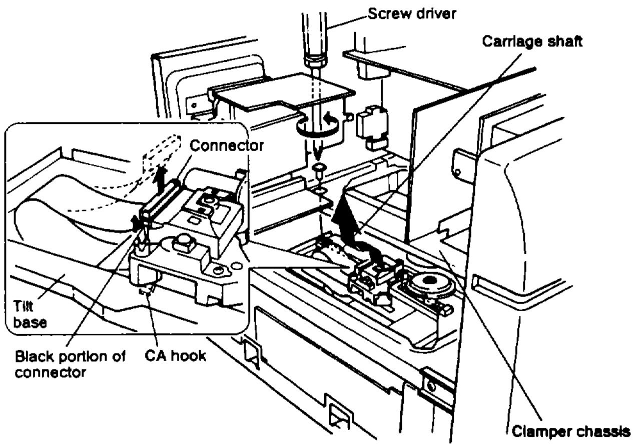

Screw driver
Carriage shaft
Connector
Tilt base
Black portion of connector
CA hook
Clamper chassis

Fig. 5 Remove the carriage assy.

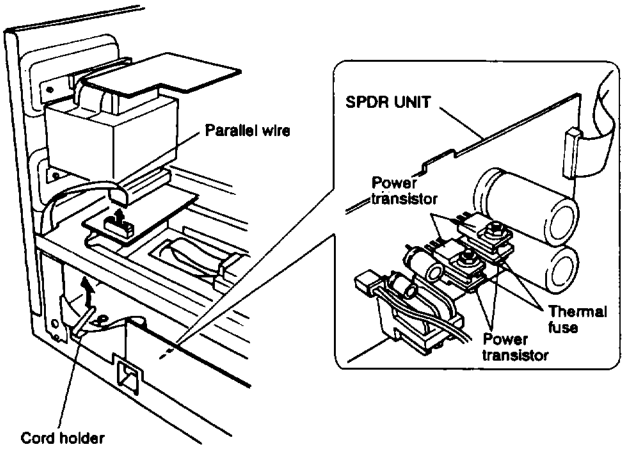

Parallel wire
SPDR UNIT
Power transistor
Thermal fuse
Power transistor
Cord holder

Fig. 6

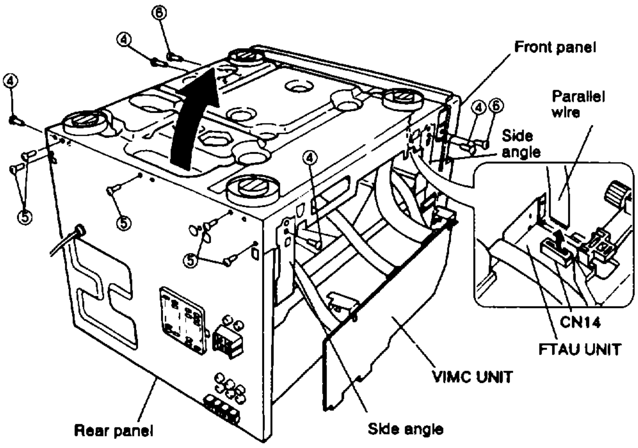

⑥
④
④
⑤
⑤
④
⑤
Front panel
Parallel wire
④⑥
Side angle
CN14
FTAU UNIT
VIMC UNIT
Rear panel
Side angle

Fig. 7

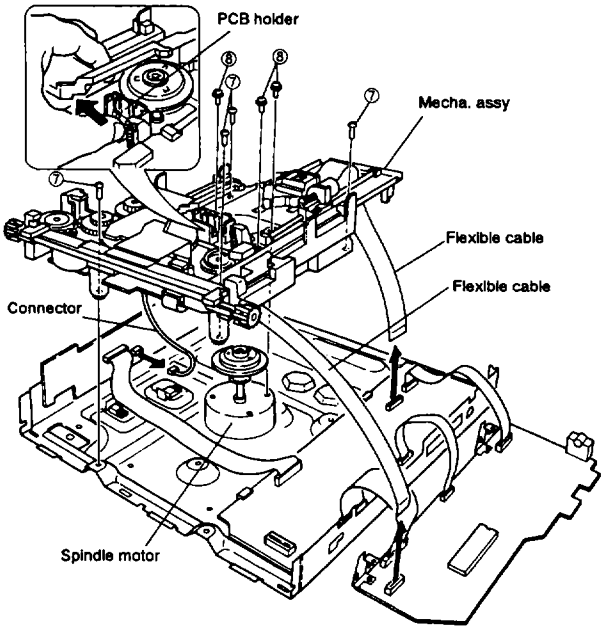

PCB holder
⑧
⑧
⑦
⑧
⑦
Mecha. assy
⑦
Flexible cable
Flexible cable
Connector
Spindle motor

Fig. 8

3. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

3.1 EXTERIOR AND DISC TRAY SECTION (for CL–J35LD/KU)

Parts List

Mark	No.	Description	Part No.
	1	LD door	REA1147
NSP	2	LD tray	VNK2686
	3	Lock plate spring	VBH1188
	4	CD door	REA1148
	5	Door shaft	RLA1182
	6	Cushion	VEC1682
	7	Door spring	VBH1223
	8	Guide plate L	VNE1938
	9	Guide plate R	VNE1939
	10	CD tray	VNK2687
	11	Lock plate	VNL1635
NSP	12	Carry label	VRW1289
	13	Tray assy - S	VXX2171
	14	Damp cushion	VEC1683
	15	Screw	IPZ20P050FMC
	16	Screw	BBZ30P080FMC
	17	65 label	ORW1069
	18	Bonnet	REA1143
	19	Screw	BBZ30P080FZK
	20	Azimuth cover	RNK2114
	21	Carry cushion	VEC1578
	22	Door holder	VNE1905
NSP	23	LD door assy	RXA1670
	24	Badge	RAM1010
	25	Washer	VEC1254

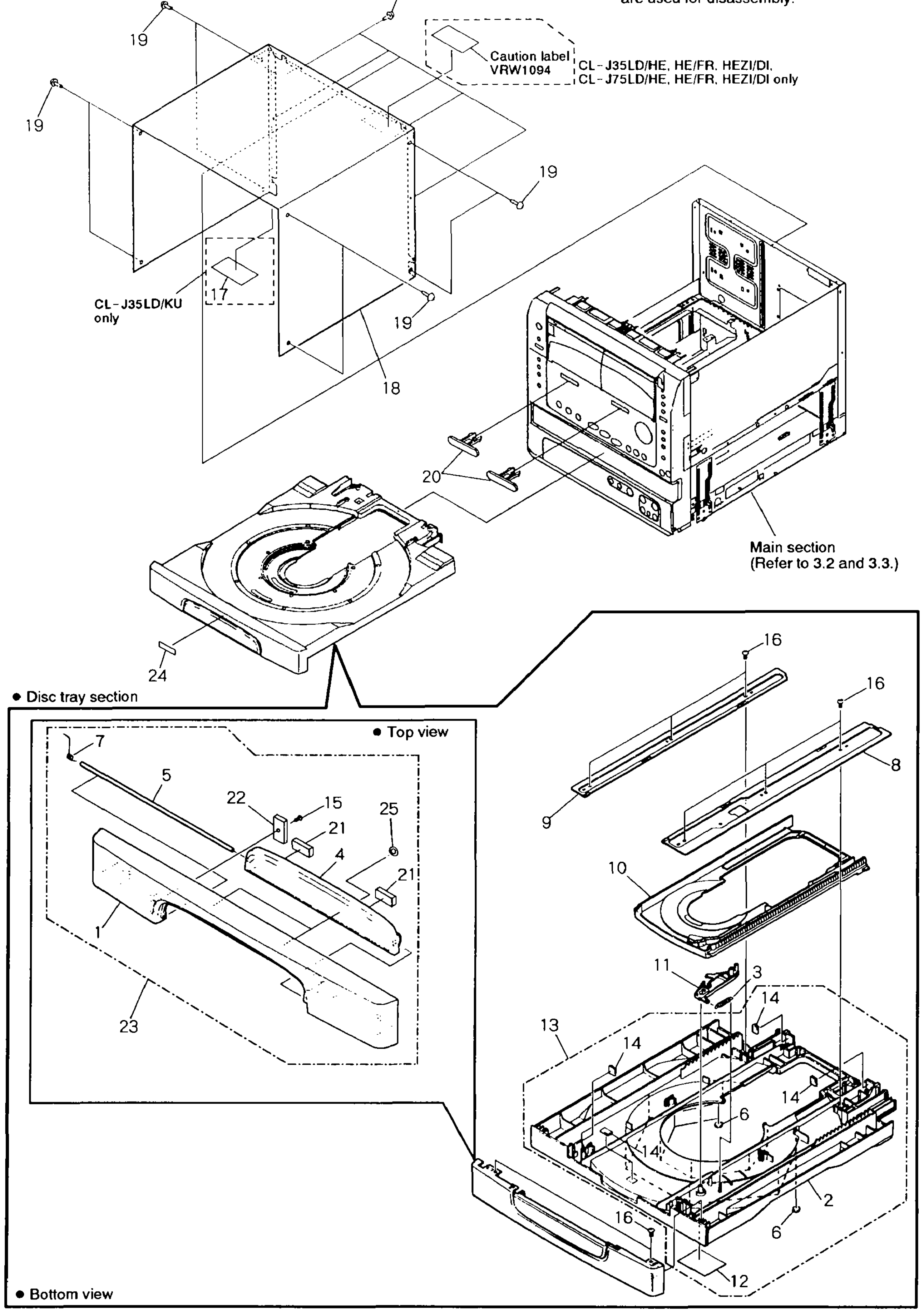
3.2 MAIN SECTION (1/2) (for CL–J35LD/KU)

Parts List

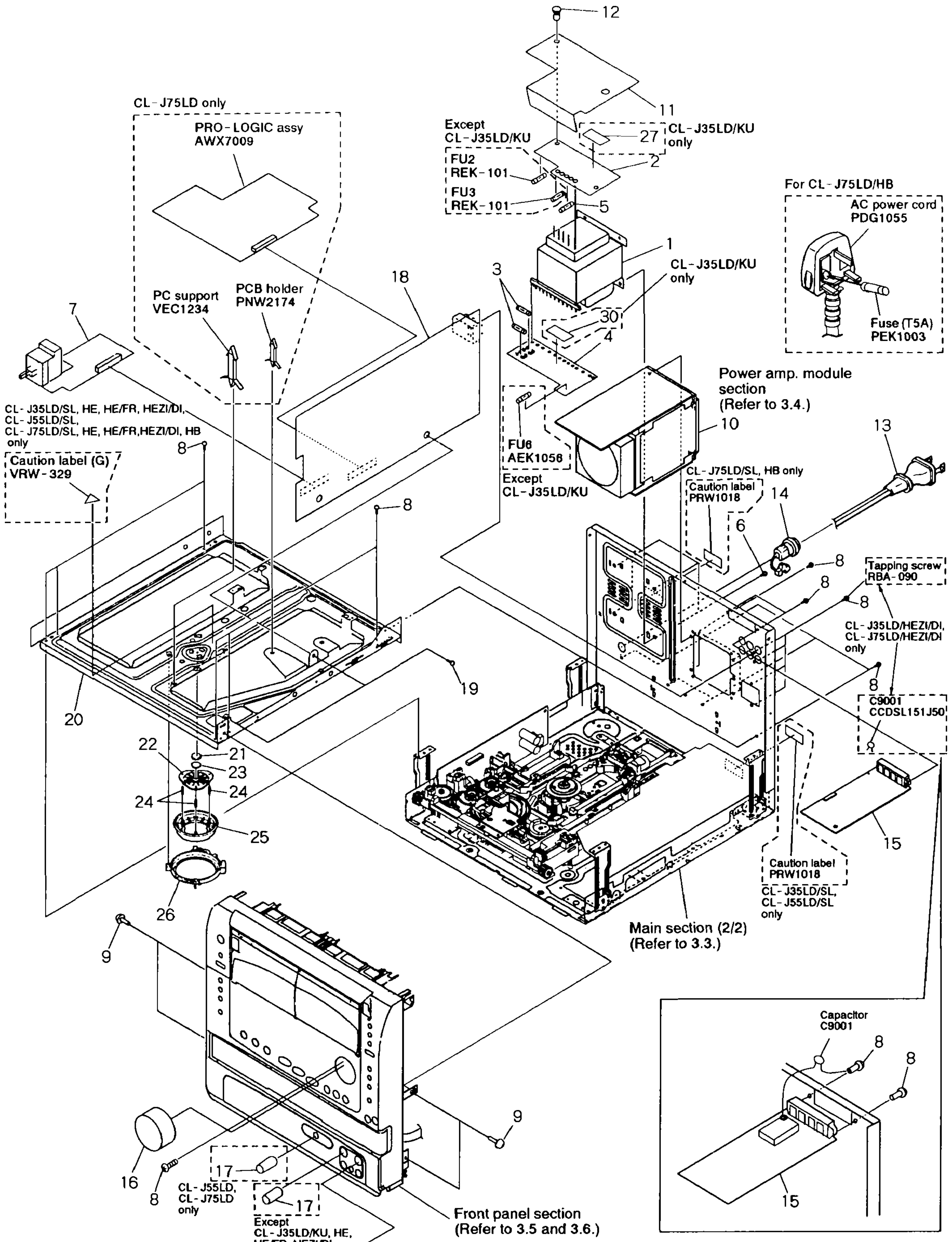
Mark	No.	Description	Part No.
⚠	1	Power transformer(T1: AC120V)	RTT1282
NSP	2	PRIMARY assy	RWZ3377
⚠	3	Fuse(FU4, FU5/4A)	REK1082
NSP	4	TRANS assy	RWZ3317
⚠	5	Fuse(FU1/2.5A)	REK1079
	6	Screw	BBZ40P080FZK
	7	VOL assy	RWZ3593
	8	Screw	BBZ30P080FZK
	9	Screw	BCZ30P080FMC
	10	POWER AMP. module	AXQ7018
NSP	11	Barrier	REC1252
	12	Nylon rivet	RBM - 003
⚠	13	AC power cord	PDG1015
	14	Strain relief	CM - 22C
	15	FM/AM TUNER module	AXQ1012
	16	Volume knob	RAC1933
	17	Mic knob	RAC1936
	18	MAIN assy	RWZ3619
	19	Screw	BBZ30P080FMC
NSP	20	Clamper chassis	RNB1106
	21	Rubber mat	VEB1114
	22	Clamper head	VNL1649
	23	Thrust holder	VNL1663
	24	Clamper spring	VBH1192
	25	Clamper	VNL1648
	26	Clamper holder	VNL1636
NSP	27	Label (fuse)	RRW1199
	28	• • • • •	
	29	• • • • •	
NSP	30	Label (fuse)	RRW1198

• Exterior and Disc Tray section

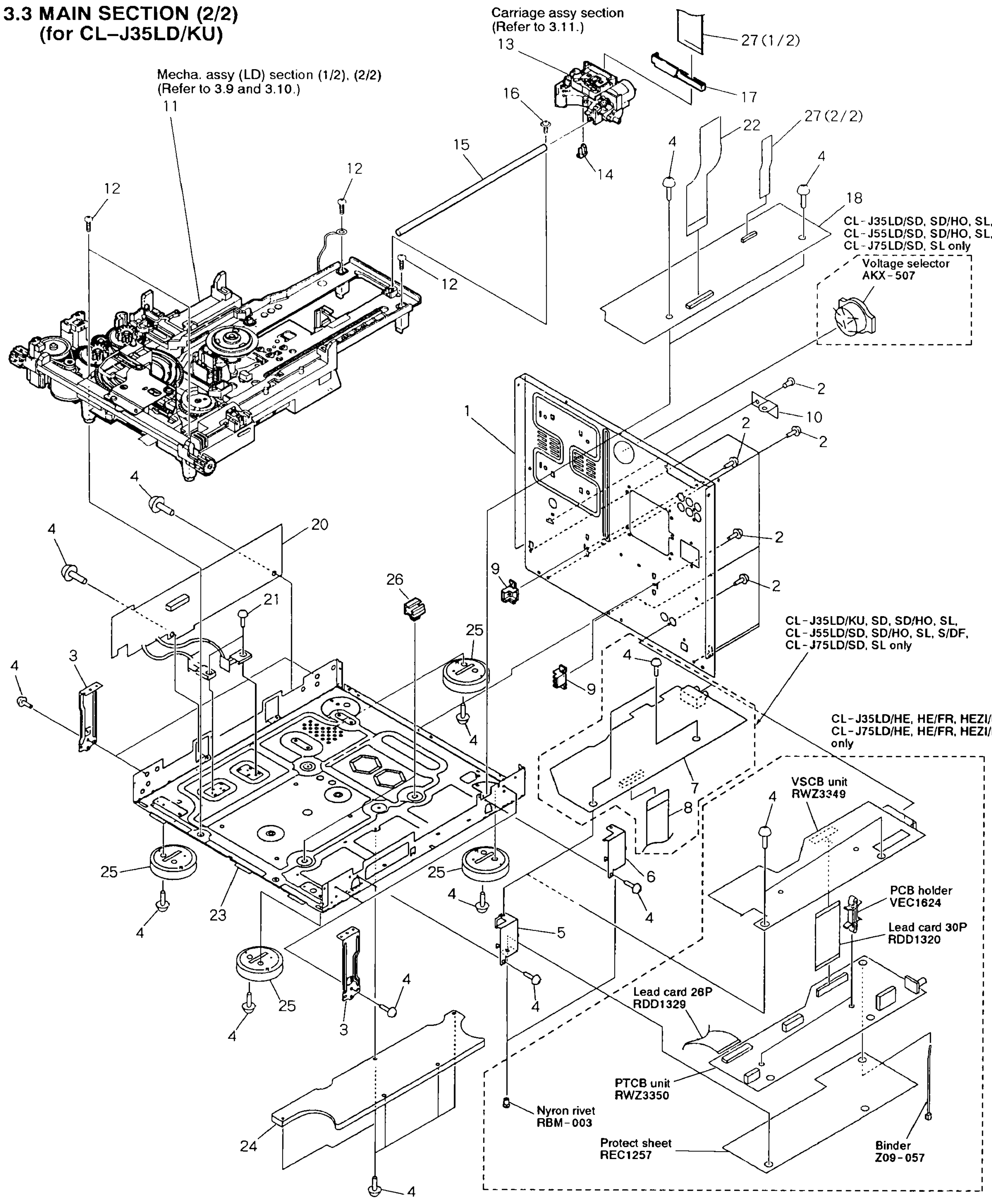
NOTE: Screws adjacent to ▼ mark on the product are used for disassembly.


19
19
19
19
19
Caution label VRW1094
CL-J35LD/HE, HE/FR, HEZI/DI,
CL-J75LD/HE, HE/FR, HEZI/DI only
17
CL-J35LD/KU only
18
20
Main section (Refer to 3.2 and 3.3.)
24
• Disc tray section
• Top view
7
5
22
15
21
25
21
4
1
23
16
16
9
8
10
11
3
14
13
14
14
6
14
2
16
6
12
• Bottom view

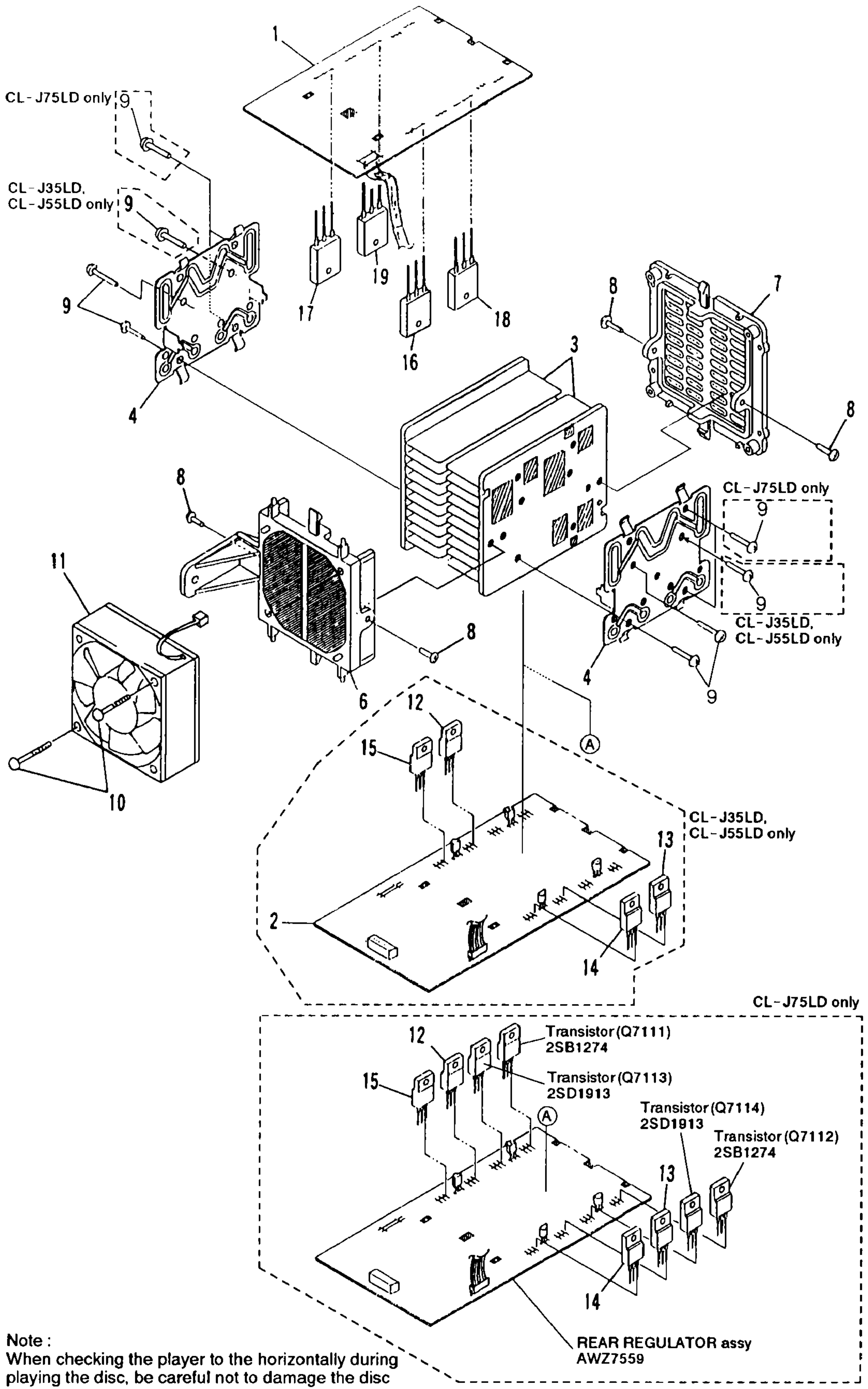
• Main section (1/2)


12
11
Except CL-J35LD/KU
27
CL-J35LD/KU only
2
FU2 REK-101
FU3 REK-101
5
1
CL-J75LD only
PRO-LOGIC assy AWX7009
For CL-J75LD/HB
AC power cord PDG1055
Fuse (T5A) PEK1003
18
3
CL-J35LD/KU only
30
4
PC support VEC1234
PCB holder PNW2174
7
Power amp. module section (Refer to 3.4.)
10
13
CL-J35LD/SL, HE, HE/FR, HEZI/DI,
CL-J55LD/SL,
CL-J75LD/SL, HE, HE/FR,HEZI/DI, HB only
Caution label (G) VRW-329
8
8
FU6 AEK1056
Except CL-J35LD/KU
CL-J75LD/SL, HB only
Caution label PRW1018
14
6
8
Tapping screw RBA-090
8
8
CL-J35LD/HEZI/DI,
CL-J75LD/HEZI/DI only
19
20
8
C9001 CCDSL151J50
21
22
23
24
24
25
15
26
Caution label PRW1018
CL-J35LD/SL,
CL-J55LD/SL only
Main section (2/2) (Refer to 3.3.)
9
Capacitor C9001
8
8
9
15
16
8
17
CL-J55LD, CL-J75LD only
17
Except CL-J35LD/KU, HE, HE/FR, HEZI/DI
17
Front panel section (Refer to 3.5 and 3.6.)

3.3 MAIN SECTION (2/2)
(for CL–J35LD/KU)


Carriage assy section
(Refer to 3.11.)
Mecha. assy (LD) section (1/2), (2/2)
(Refer to 3.9 and 3.10.)
CL-J35LD/SD, SD/HO, SL,
CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL only
Voltage selector
AKX-507
CL-J35LD/KU, SD, SD/HO, SL,
CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL only
CL-J35LD/HE, HE/FR, HEZI/DI,
CL-J75LD/HE, HE/FR, HEZI/DI, HB
only
VSCB unit
RWZ3349
PCB holder
VEC1624
Lead card 30P
RDD1320
Lead card 26P
RDD1329
PTCB unit
RWZ3350
Nyron rivet
RBM-003
Protect sheet
REC1257
Binder
Z09-057
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
20
21
22
23
24
25
26
27(1/2)
27(2/2)

3.4 POWER AMP. MODULE SECTION
(for CL–J35LD/KU)


CL-J75LD only
CL-J35LD,
CL-J55LD only
CL-J75LD only
CL-J35LD,
CL-J55LD only
CL-J35LD,
CL-J55LD only
CL-J75LD only
Transistor (Q7111)
2SB1274
Transistor (Q7113)
2SD1913
Transistor (Q7114)
2SD1913
Transistor (Q7112)
2SB1274
REAR REGULATOR assy
AWZ7559
Ⓐ
1
2
3
4
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Note :
When checking the player to the horizontally during playing the disc, be careful not to damage the disc and the pickup because of the disc is rolled.

Parts List for Main Section (2/2)

Mark	No.	Description	Part No.
NSP	1	Rear panel	RNA1940
	2	Screw	BBZ30P080FZK
NSP	3	Side angle	RNE1815
	4	Screw	BBZ30P080FMC
NSP	5	PCB angle A	RNE1816
NSP	6	PCB angle B	RNE1822
	7	VIMC unit	RWZ3358
	8	Lead card 26P	RDD1315
	9	Tray stopper	VNL1657
NSP	10	Bracket	RNE1589
NSP	11	Mecha. assy (LD)	VWT1109
	12	Screw	BBZ30P120FMC
	13	Carriage assy	VWT1110
	14	CA hook	VNL1641
	15	Shaft	VLL1453
	16	Screw	IPZ30P060FMC
	17	FFC holder	VNL1656
	18	FTAU unit	RWZ3357
	19	• • • • •	
	20	SPDR unit	RWZ3359
	21	Screw	BCZ30P080FMC
	22	Lead card 19P	RDD1319
NSP	23	Chassis	RNB1105
NSP	24	Bottom plate	RNE1814
	25	Foot assy	RXA1606
NSP	26	PCB holder	PNY-405
	27	Lead card 23P	RDD1318

Parts List for Power Amp. Module Section

Mark	No.	Description	Part No.
	1	FRONT 50W assy	AWZ7517
	2	REGULATOR assy	AWZ7560
	3	Heat sink	ANH7007
	4	Bracket	ANG1868
	5	• • • • •	
	6	Mold A	AMR2594
	7	Mold B	AMR2595
	8	Screw (3 × 10)	ABA1021
	9	Screw	BBZ30P140FZK
	10	Screw	BPZ30P350FZK
	11	Fan motor	AXM1019
	12	Regulator IC(IC7401)	NJM7812FAS
	13	Regulator IC(IC7402)	NJM7912FA
	14	Regulator IC(IC7403)	NJM7812FAS
	15	Regulator IC(IC7404)	NJM7805FAS
⚠	16	Transistor(Q7511)	2SA1263N
⚠	17	Transistor(Q7512)	2SA1263N
⚠	18	Transistor(Q7513)	2SC3180N
⚠	19	Transistor(Q7514)	2SC3180N

3.5 FRONT PANEL SECTION (1/2) (for CL–J35LD/KU)

Parts List

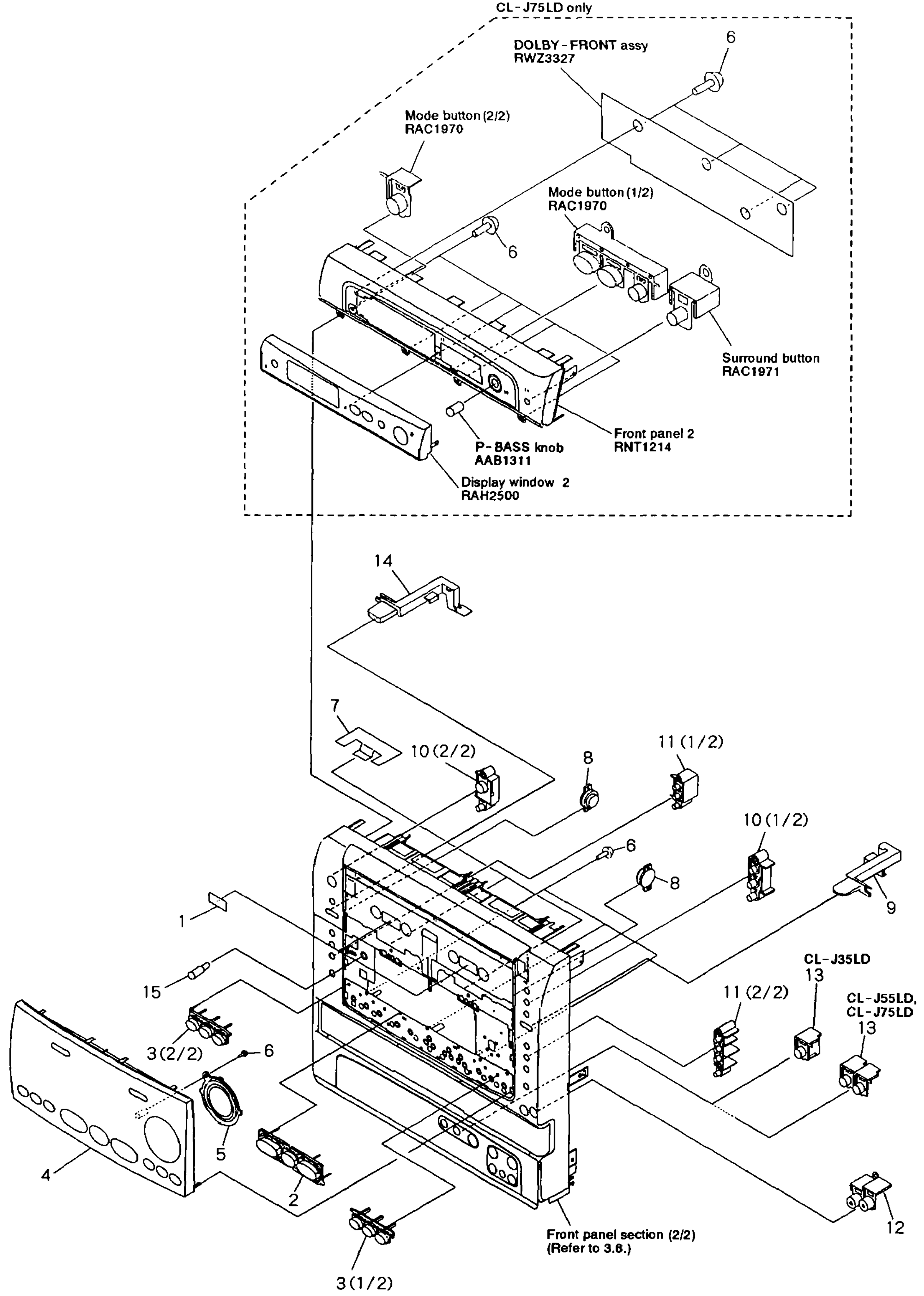
Mark	No.	Description	Part No.
	1	Indicator	REE1026
	2	Multi button	RXA1681
	3	Function button	RAC1934
	4	Display panel	RAH2544
	5	Ring	RNK2121
	6	Screw	BPZ30P080FZK
NSP	7	FL barrier	REC1251
	8	Damper assy	AXA7018
	9	Eject button R	RAC1932
	10	Amp. button A	RAC1984
	11	Amp. button B	RAC1930
	12	O/C button	RAC1943
	13	KARAOKE button	RAC1942
	14	Eject button L	RAC1931
	15	Lens	RAH2542

3.6 FRONT PANEL SECTION (2/2) (for CL–J35LD/KU)

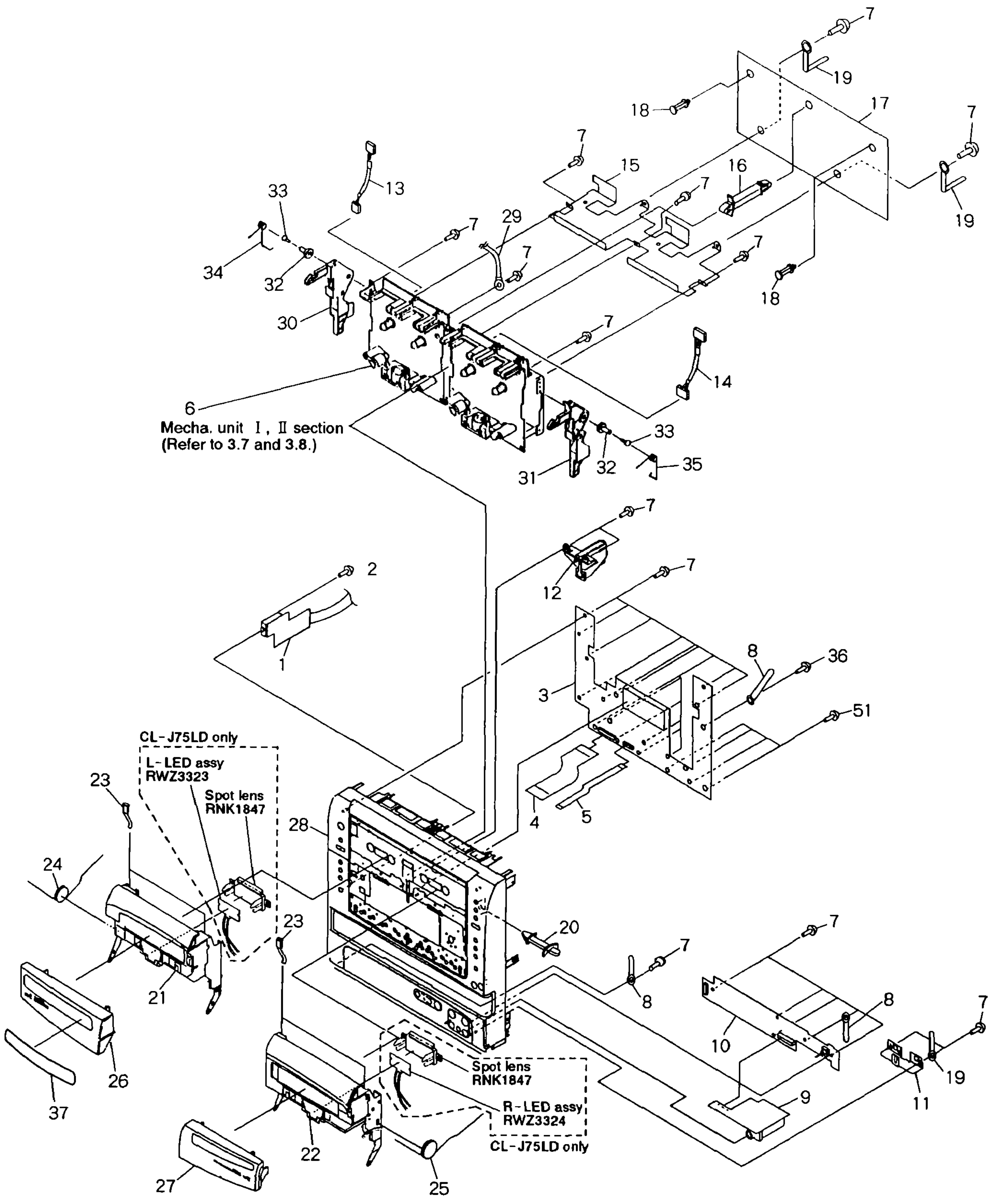
Parts List

Mark	No.	Description	Part No.
NSP	1	H.P. assy	RWZ3351
	2	Screw	ABA1005
	3	U.COM assy	RWZ3376
	4	Lead card 34P	RDD1321
	5	Lead card 14P	RDD1322
	6	Mecha. unit (DECK)	RYM1235
	7	Screw	BPZ30P080FMC
	8	Cord clamper	RNH-184
	9	MIC assy	RWZ3346
	10	LD–FRONT assy	RWZ3344
NSP	11	Jack bracket	RNE1817
	12	Center bracket	RNK2113
NSP	13	Connector assy 3P	RKP1712
NSP	14	Connector assy 5P	RKP1711
NSP	15	Shield	RNE1818
NSP	16	PCB support	REC1248
	17	DECK assy	RWZ3577
NSP	18	PCB spacer	REC1249
NSP	19	Cord clamper	DNF1128
NSP	20	PC support	VEC1235
	21	Cassette door L	REA1150
	22	Cassette door R	REA1151
	23	Half pressure spring	RBK1004
	24	Door spring R	ABH7002
	25	Door spring L	ABH7001
	26	Door panel L	RAH2481
	27	Door panel R	RAH2482
	28	Front panel	REA1174
NSP	29	Earth lead	XDF-508
	30	Eject lever L	RNK2133
	31	Eject lever R	RNK2134
	32	Collar	RNK2135
	33	Screw	BSZ20P120FMC
	34	Eject spring L	RBH1411
	35	Eject spring R	RBH1412
	36	Screw	BPZ30P100FZK
NSP	37	Getter	RAX1023

- **Front Panel section (1/2)**

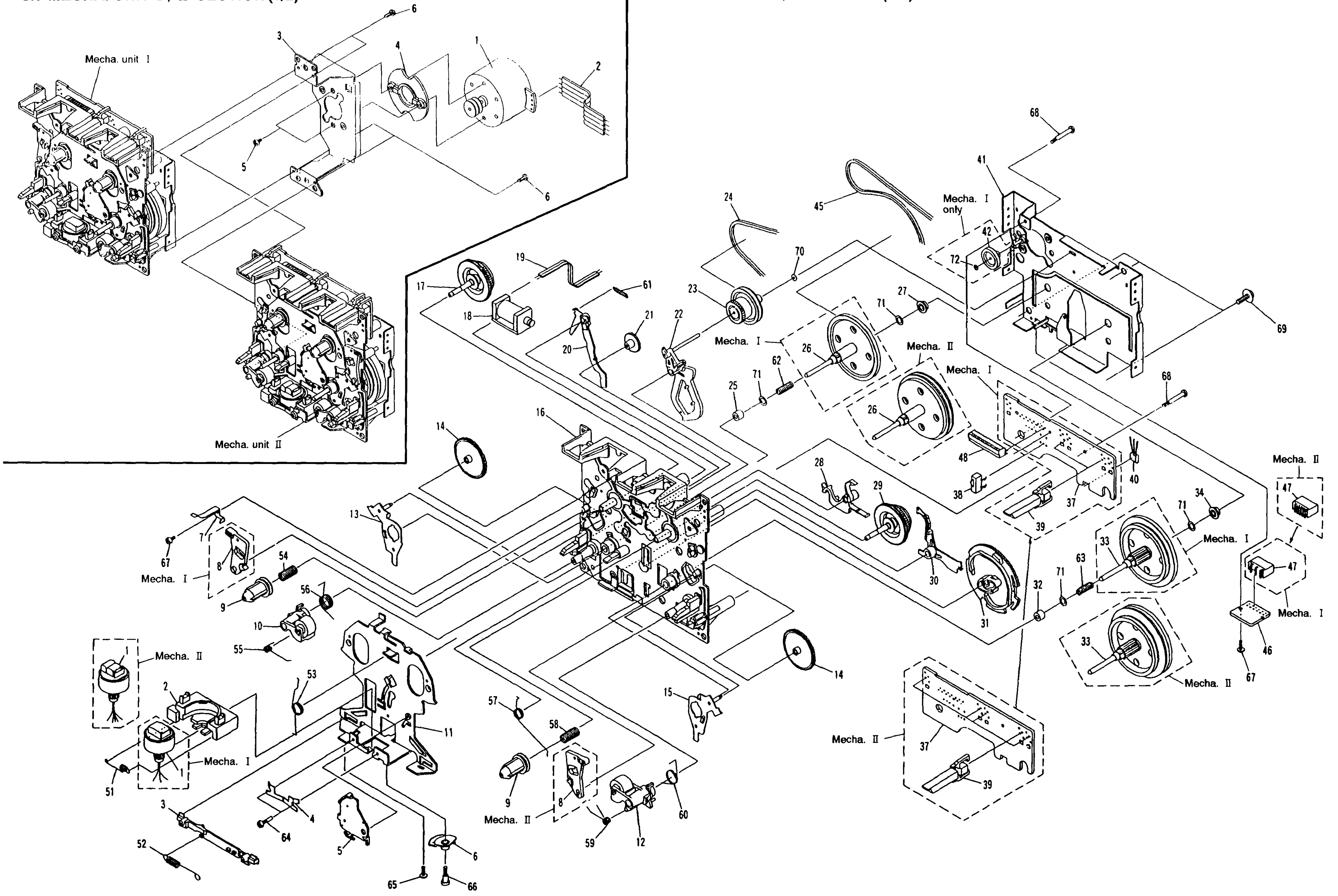

CL-J75LD only
DOLBY-FRONT assy
RWZ3327
6
Mode button (2/2)
RAC1970
Mode button (1/2)
RAC1970
6
Surround button
RAC1971
Front panel 2
RNT1214
P-BASS knob
AAB1311
Display window 2
RAH2500
14
7
10 (2/2)
8
11 (1/2)
10 (1/2)
6
8
9
1
15
3 (2/2)
6
5
4
2
3 (1/2)
11 (2/2)
CL-J35LD
13
CL-J55LD,
CL-J75LD
13
12
Front panel section (2/2)
(Refer to 3.6.)

- **Front Panel section (2/2)**


7
19
18
17
7
7
15
16
7
19
13
33
34
32
30
29
7
7
7
7
18
7
14
6
Mecha. unit Ⅰ, Ⅱ section
(Refer to 3.7 and 3.8.)
33
32
35
31
7
12
7
2
1
8
36
3
51
4
5
CL-J75LD only
L-LED assy
RWZ3323
Spot lens
RNK1847
23
28
24
23
20
7
21
7
8
8
10
7
19
11
9
26
37
Spot lens
RNK1847
R-LED assy
RWZ3324
CL-J75LD only
22
25
27

3.7 MECHA. UNIT Ⅰ, Ⅱ SECTION (1/2)

3.8 MECHA. UNIT Ⅰ, Ⅱ SECTION (2/2)


Mecha. unit Ⅰ
Mecha. unit Ⅱ
1
2
3
4
5
6
A
B
C
D
Mecha. Ⅰ
Mecha. Ⅱ
Mecha. Ⅰ only
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
37
38
39
40
41
42
45
46
47
48
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72

Parts List for Mecha. unit Ⅰ, Ⅱ Section (1/2)

Mark	No.	Description	Part No.
	1	ASSY MOTOR	RXM1080
NSP	2	JUMPER CABLE	RDD1012
	3	BRACKET MOTOR	RNE1830
	4	SPACER	RNK1822
	5	SCREW	RBA1100
	6	SCREW	PCZ20P040FMC

Parts List for Mecha. unit Ⅰ, Ⅱ Section (2/2)

Mark	No.	Description	Part No.
	1	ASSY HOLDER HEAD (Mecha. Ⅰ)	RXA1400
	1	ASSY HOLDER HEAD (Mecha. Ⅱ)	RXA1664
	2	FRAME HEAD	RNK1715
	3	LEVER HEAD	RNK1716
	4	SPRING AZIMUTH	RBK1006
	5	ASSY ARM ASSIST	RXA1401
	6	GEAR ARM HEAD	RNK1717
	7	SPRING CASSETTE	RBK1039
	8	EJECT LOCK	RNK1718
	9	CAP REEL	RNK1719
	10	ASSY PINCH ARM L	RXA1403
	11	CHASSIS HEAD	RNE1437
	12	ASSY PINCH ARM R	RXA1404
	13	ARM PLAY L	RNK1866
	14	GEAR PLAY	RNK1867
	15	ARM PLAY R	RNK1868
	16	CHASSIS OS	RXA1411
	17	ASSY SUB REEL L	RXA1407
	18	SOLENOID	RXP1020
	19	WIRE	RDC1006
	20	ARM RVS	RNK1721
	21	GEAR FF	RNK1723
	22	ASSY ARM FR	RXA1412
	23	ASSY PULLEY FR	RXA1413
	24	BELT FR	REB1158
	25	METAL	RNG1048
	26	ASSY FLYWHEEL L (Mecha. Ⅰ)	RXA1666
	26	ASSY FLYWHEEL L2 (Mecha. Ⅱ)	RXA1668
	27	METAL	RNG1005
	28	ARM BRAKE	RNK1724
	29	ASSY SUB REEL R	RXA1408
	30	ARM TRIGGER	RNK1722
	31	GEAR CAM	RNK1725
	32	METAL	RNG1049
	33	ASSY FLYWHEEL R (Mecha. Ⅰ)	RXA1667
	33	ASSY FLYWHEEL R2 (Mecha. Ⅱ)	RXA1669
	34	METAL	RNG1004
	35	• • • • •	
	36	• • • • •	
	37	P. C. BOARD	RNP1610
	38	SWITCH MODE	RSN1020
	39	SWITCH(LEAF)	RSN1019
	40	HALL IC	DN6851A
	41	ASSY BRACKET (Mecha. Ⅰ)	RXA1665
	41	BRACKET FW (Mecha. Ⅱ)	RNE1438
	42	PULLEY (Mecha. Ⅰ only)	RNK2132
	43	• • • • •	
	44	• • • • •	
	45	BELT MAIN (Mecha. Ⅰ)	REB1273
	45	BELT MAIN (Mecha. Ⅱ)	REB1272
	46	P. C. BOARD	RNP1348
	47	HOUSING (Mecha. Ⅰ)	RKP1396
	47	HOUSING (Mecha. Ⅱ)	RKP1397
	48	CONNECTOR (Mecha. Ⅰ)	RKP1713
	48	CONNECTOR (Mecha. Ⅱ)	RKP1714
	49	• • • • •	
	50	• • • • •	
	51	SPRING	RBH1282
	52	SPRING	RBH1283
	53	SPRING	RBH1284
	54	SPRING	RBH1286
	55	SPRING	RBH1288
	56	SPRING	RBH1291
	57	SPRING	RBH1285
	58	SPRING	RBH1287
	59	SPRING	RBH1289
	60	SPRING	RBH1290
	61	SPRING	RBH1292
	62	FWP SP (SPRING)	RBH1061
	63	SPRING	RBH1325
	64	SCREW (azimuth)	RBA1023
	65	SCREW	RBA1027
	66	SCREW	RBA1030
	67	SCREW	PCZ20P040FMC
	68	SCREW	RBA1093
	69	SCREW	RBA1094
	70	WASHER	RBF1046
	71	WASHER	WA26D047D013
	72	WASHER (Mecha. Ⅰ only)	WT13D030D025

3.9 MECHA. ASSY (LD) SECTION (1/2)

Mark	No.	Description	Part No.
	1	Clamp cam	VNL1633
	2	CDP spring	VBH1191
	3	Screw	Z39-019
	4	CD plate	VNL1632
	5	Rubber belt	VEB1184
	6	Gear pulley	VNL1662
	7	Twin gear	VNL1626
	8	Center gear	VNL1660
	9	Mecha. base	VNK2685
	10	Screw	BMZ26P040FMC
	11	Roller	VNL1042
NSP	12	Motor pulley	VNL1630
	13	Synchro. gear assy	VXA2105
NSP	14	LMSB assy	VWG1554
	15	Screw	Z39-019
NSP	16	Carriage motor	VXM1033
	17	Shaft holder	VNE1942
	18	CAS spring	VBH1190
	19	Cam plate	VNL1631
	20	Cam gear	VNL1625
	21	Loading motor assy	VXX2045
	22	MB-SW lever	VNL1664
	23	Slider R	VNL1666
	24	Slider L	VNL1665
	25	Double gear	VNL1661
	26	Flexible cable(10P)	VDA1466

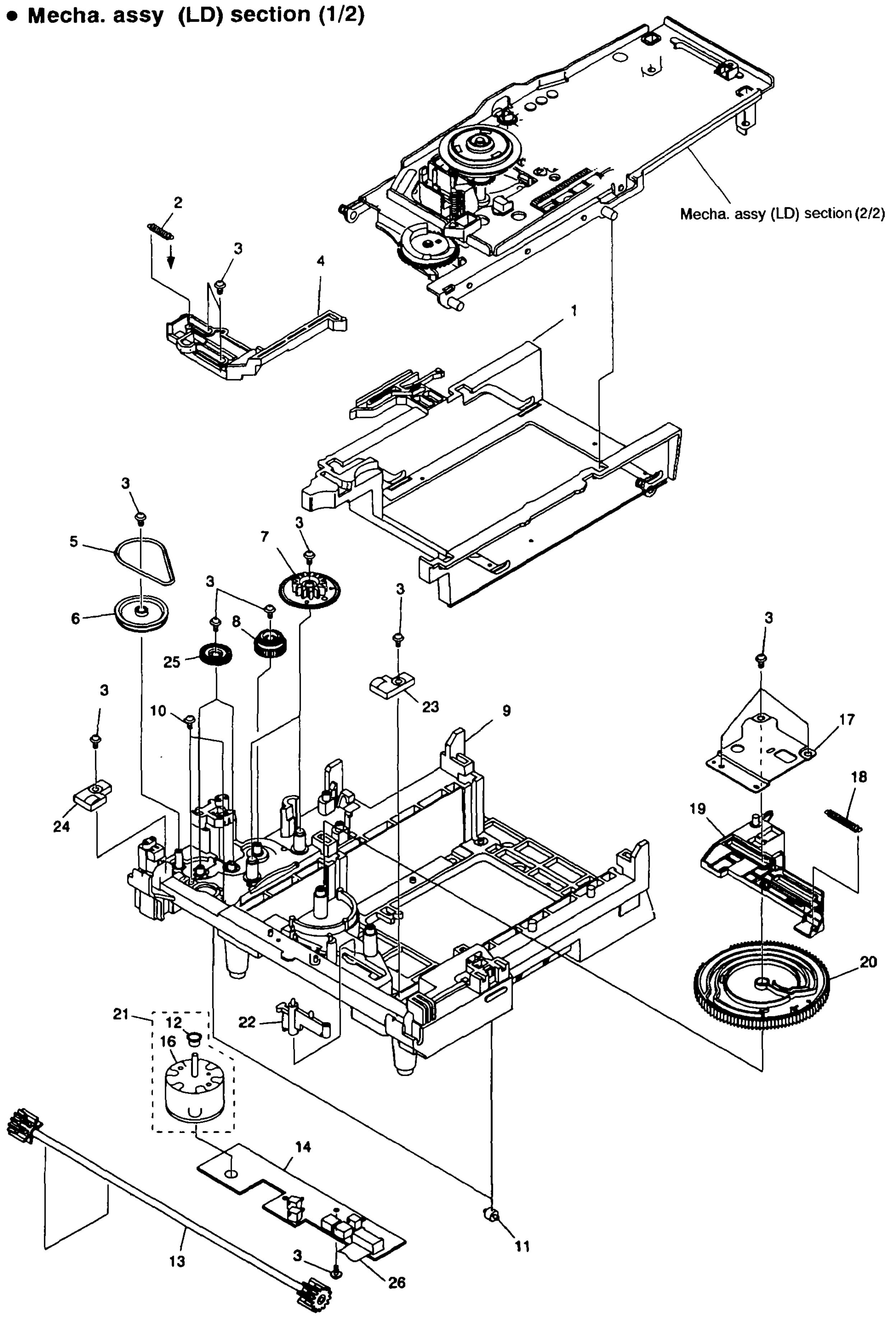
3.10 MECHA. ASSY (LD) SECTION (2/2)

Mark	No.	Description	Part No.
	1	CA rack	VNL1647
	2	Screw	IBZ26P060FMC
	3	Tilt base	VNL1642
	4	Radial spring	VBH1246
	5	Thrust spring	VBH1245
	6	CA-SW lever	VNL1644
NSP	7	PKSB assy	VWG1555
	8	Tilt tension spring	VBH1244
NSP	9	FG assy	VWG1556
	10	Screw	ABZ30P300FMC
	11	FG base	VNL1645
	12	Tilt cam	VNL1643
	13	Tilt cam spring	VBH1243
	14	Motor base	VNE1941
	15	Spindle motor assy	VXA2125
	16	Screw	IBZ26P120FMC
	17	• • • • •	
	18	Centering hab	VNL1623
	19	Centering spring	VBH1083
	20	Rubber sheet	VEB1237
NSP	21	Turn table assy	VXA2106
	22	• • • • •	
NSP	23	Spindle motor	VXM1057
	24	Housing assy (3P : blue)	VKP2045
	25	Housing assy (3P : yellow)	VKP2046

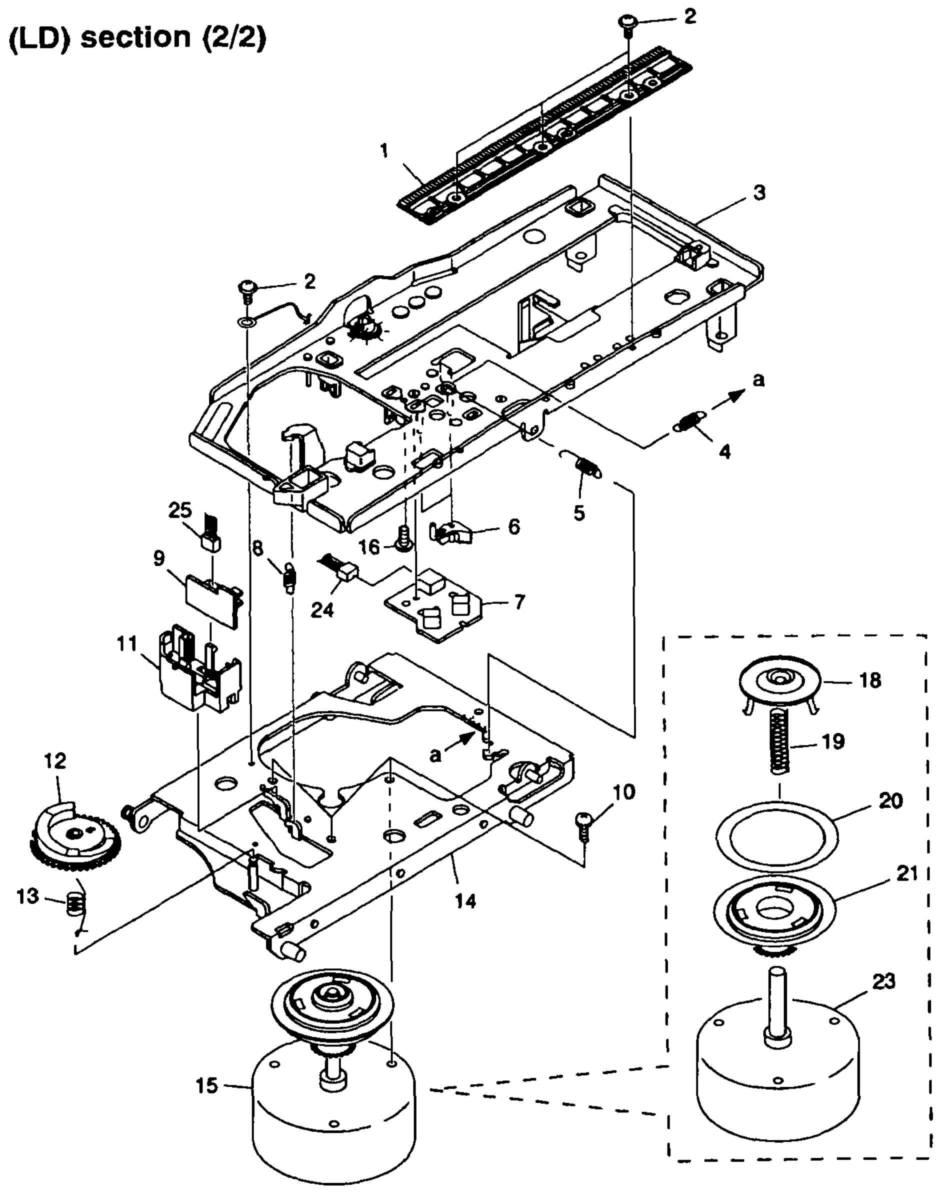
3.11 CARRIAGE ASSY SECTION

Mark	No.	Description	Part No.
	1	CA gear A	VNL1638
	2	CA gear B	VNL1639
	3	Slider motor assy	VXX2082
	4	Motor holder	VNL1637
	5	Screw	PMA20P060FMC
	6	• • • • •	
	7	Screw	PMZ20P030FMC

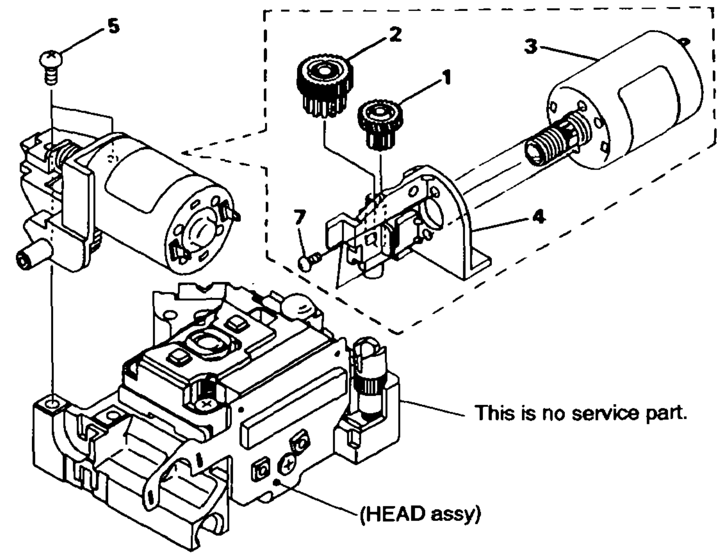
- **Mecha. assy (LD) section (1/2)**


Mecha. assy (LD) section(2/2)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
16
17
18
19
20
21
22
23
24
25
26

- **Mecha. assy (LD) section (2/2)**


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
18
19
20
21
23
24
25
a

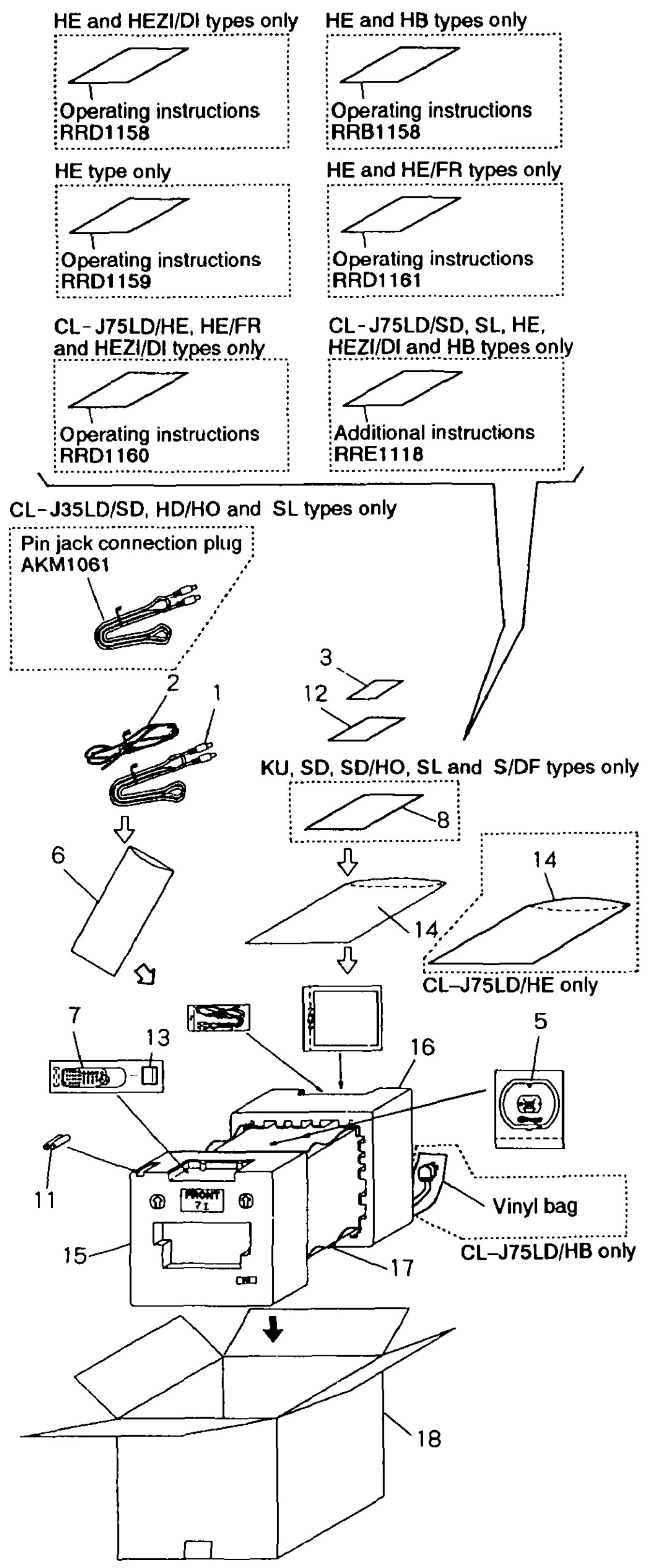
- **Carriage assy section**


1
2
3
4
5
7
This is no service part.
(HEAD assy)

3.12 PACKING (for CL–J35LD/KU)

Parts List

Mark	No.	Description	Part No.
	1	Connection cord with plug	ADE1059
	2	FM antenna	ADH1017
NSP	3	Warranty card	ARY1044
	4	• • • • •	
	5	Loop antenna assy	ATB1012
NSP	6	Vinyl bag	RHL-052
	7	Remote control unit	RPX1084
	8	Operating instructions (English/Spanish/Chinese)	RRE1117
	9	• • • • •	
	10	• • • • •	
NSP	11	Batteries(R03, AAA)	VEM-022
	12	Caution sheet(UC)	VRR1020
	13	Battery lid	AZA7050
	14	Vinyl bag	Z21-038
	15	Pad F	RHA1160
	16	Pad R	RHA1161
	17	Mirror mat sheet	RHC1059
	18	Packing case	RHG1661


HE and HEZI/DI types only
Operating instructions RRD1158
HE and HB types only
Operating instructions RRB1158
HE type only
Operating instructions RRD1159
HE and HE/FR types only
Operating instructions RRD1161
CL-J75LD/HE, HE/FR and HEZI/DI types only
Operating instructions RRD1160
CL-J75LD/SD, SL, HE, HEZI/DI and HB types only
Additional instructions RRE1118
CL-J35LD/SD, HD/HO and SL types only
Pin jack connection plug AKM1061
1
2
3
12
KU, SD, SD/HO, SL and S/DF types only
8
6
14
14
CL-J75LD/HE only
7
13
5
16
11
15
17
Vinyl bag
CL-J75LD/HB only
18

4. SCHEMATIC AND PCB CONNECTION DIAGRAMS

4.1 OVERALL WIRING DIAGRAM, LMSB, PKSB AND FG ASSEMBLIES

NOTE FOR SCHEMATIC DIAGRAMS (Type 4A)

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**

3. **RESISTORS:**
Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance:(F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.

4. **CAPACITORS:**
Unit : p:pF or μF unless otherwise noted.
Ratings : capacitor (μF) / voltage (V) unless otherwise noted.
Rated voltage : 50V except for electrolytic capacitors.

5. **COILS:**
Unit : m:mH or μH unless otherwise noted.

6. **VOLTAGE AND CURRENT:**
▭ or ← V :
DC voltage (V) in PLAY mode unless otherwise noted.
⇦ mA or ← mA :
DC current in PLAY mode unless otherwise noted.
Value in ( ) is DC current in STOP mode.

7. **OTHERS:**
- ⊘ or ⊘ : Adjusting point.
- ◁ : Measurement point.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. **SCH – □ ON THE SCHEMATIC DIAGRAM:**
- SCH– □ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

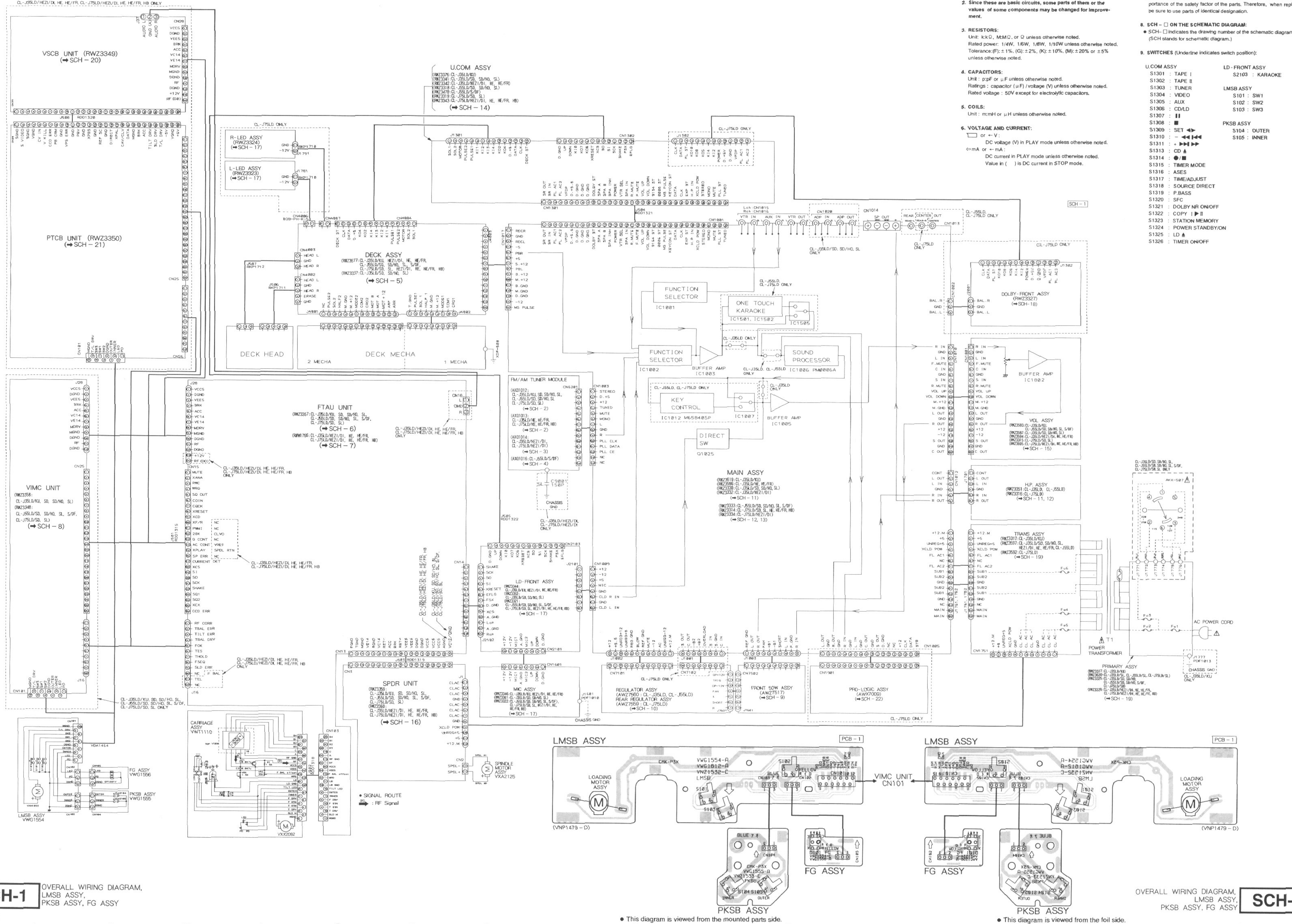
9. **SWITCHES** (Underline indicates switch position):

U.COM ASSY
S1301 : TAPE I
S1302 : TAPE II
S1303 : TUNER
S1304 : VIDEO
S1305 : AUX
S1306 : CD/LD
S1307 : ❚❚
S1308 : ■
S1309 : SET ◀▶
S1310 : – ◀◀ ❙◀◀
S1311 : + ▶▶❙ ▶▶
S1313 : CD ⏏
S1314 : ●/■
S1315 : TIMER MODE
S1316 : ASES
S1317 : TIME/ADJUST
S1318 : SOURCE DIRECT
S1319 : P.BASS
S1320 : SFC
S1321 : DOLBY NR ON/OFF
S1322 : COPY I ▶ II
S1323 : STATION MEMORY
S1324 : POWER STANDBY/ON
S1325 : LD ⏏
S1326 : TIMER ON/OFF

LD - FRONT ASSY
S2103 : KARAOKE

LMSB ASSY
S101 : SW1
S102 : SW2
S103 : SW3

PKSB ASSY
S104 : OUTER
S105 : INNER


CL-J35LD/HEZI/DL HE, HE/FR, CL-J75LD/HEZI/DL HE, HE/FR, HB ONLY
VSCB UNIT (RWZ3349) (➡ SCH – 20)
PTCB UNIT (RWZ3350) (➡ SCH – 21)
VIMC UNIT (RWZ3358: CL-J35LD/KU, SD, SD/HO, SL) (RWZ3348: CL-J55LD/SD, SD/HO, SL, S/DF, CL-J75LD/SD, SL) (➡ SCH – 8)
U.COM ASSY (➡ SCH – 14)
R-LED ASSY (RWZ3324) (➡ SCH – 17)
L-LED ASSY (RWZ3323) (➡ SCH – 17)
DECK ASSY (➡ SCH – 5)
DECK HEAD
DECK MECHA
2 MECHA
1 MECHA
FTAU UNIT (➡ SCH – 6) (➡ SCH – 7)
FM/AM TUNER MODULE
LD-FRONT ASSY (➡ SCH – 17)
MIC ASSY (➡ SCH – 17)
SPDR UNIT (➡ SCH – 16)
CARRIAGE ASSY VWT1110
SPINDLE MOTOR ASSY VXA2125
FG ASSY VWG1556
PKSB ASSY VWG1555
LMSB ASSY VWG1554
FUNCTION SELECTOR IC1001
FUNCTION SELECTOR IC1002
BUFFER AMP IC1003
ONE TOUCH KARAOKE IC1501, IC1502
SOUND PROCESSOR IC1006 PM0006A
KEY CONTROL IC1012 M65840SP
BUFFER AMP IC1005
DIRECT SW Q1025
MAIN ASSY (➡ SCH – 11) (➡ SCH – 12, 13)
DOLBY-FRONT ASSY (RWZ3327) (➡ SCH – 18)
BUFFER AMP IC1802
VOL ASSY (➡ SCH – 15)
H.P. ASSY (➡ SCH – 11, 12)
TRANS ASSY (➡ SCH – 19)
PRIMARY ASSY (➡ SCH – 19)
POWER TRANSFORMER
AC POWER CORD
REGULATOR ASSY (AWZ7560 : CL-J35LD, CL-J55LD) REAR REGULATOR ASSY (AWZ7559 : CL-J75LD) (➡ SCH – 10)
FRONT 50W ASSY (AWZ7517) (➡ SCH – 9)
PRO-LOGIC ASSY (AWX7000) (➡ SCH – 22)
CL-J75LD ONLY
SCH – 1
◆ SIGNAL ROUTE
➡ : RF Signal
LMSB ASSY
PCB – 1
LOADING MOTOR ASSY
VIMC UNIT CN101
(VNP1479 – D)
PKSB ASSY
FG ASSY

• This diagram is viewed from the mounted parts side.

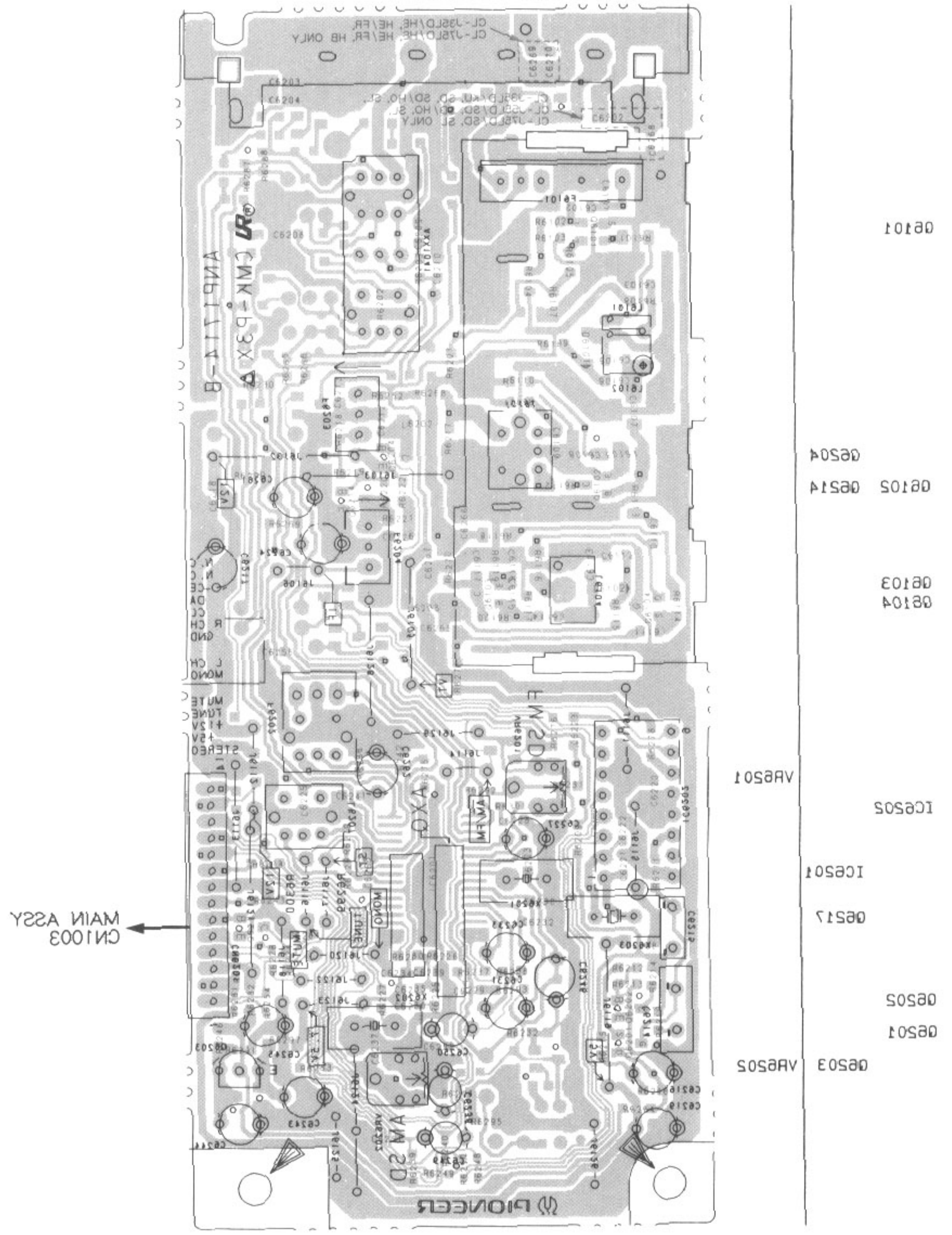
• This diagram is viewed from the foil side.

SCH-1 OVERALL WIRING DIAGRAM, LMSB ASSY, PKSB ASSY, FG ASSY

OVERALL WIRING DIAGRAM, LMSB ASSY, PKSB ASSY, FG ASSY **SCH-1**

PCB - 2

FM/AM TUNER MODULE

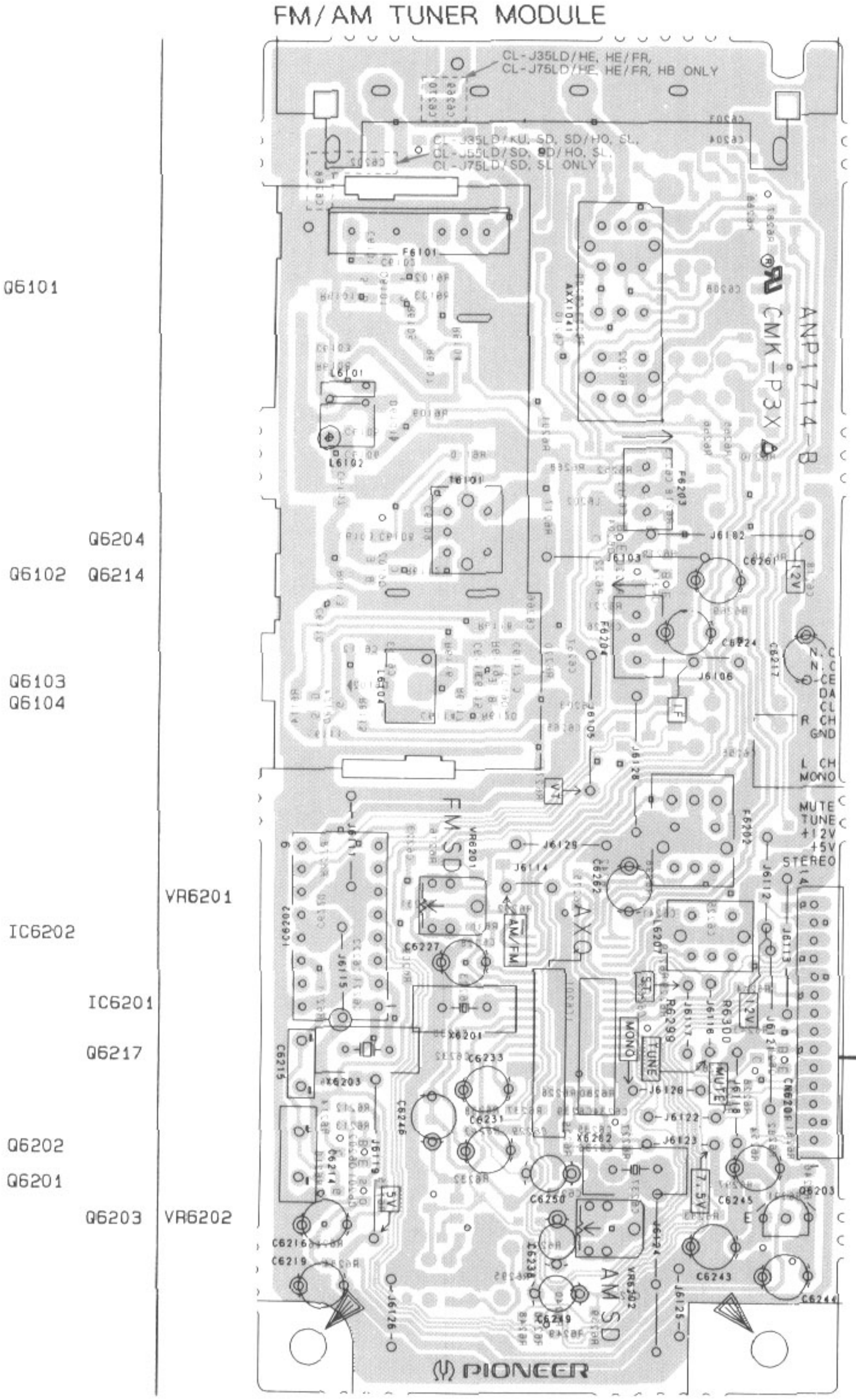

CL-J35LD/HE, HE/FR,
CL-J75LD/HE, HE/FR, HB ONLY
CL-J35LD/KU, SD, SD/HO, SL,
CL-J55LD/SD, SD/HO, SL,
CL-J75LD/SD, SL ONLY
ANP1711-B
CMX-PX3X
AXA
SD AM
SD FM
PIONEER
N.C
N.C
+CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
MAIN ASSY
CN1003
Q6101
Q6204
Q6102
Q6214
Q6103
Q6104
VR6201
IC6202
IC6201
Q6217
Q6202
Q6201
Q6203
VR6202

• This diagram is viewed from the foil side.

4.2 FM/AM TUNER MODULE (AXQ1012, AXQ1013)

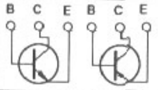
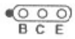
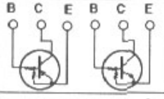
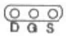
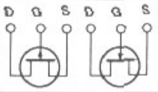
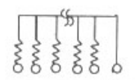
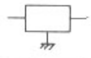
- For CL–J35LD/KU, SD, SD/HO, SL, HE, HE/FR,
  CL–J55LD/SD, SD/HO, SL,
  CL–J75LD/SD, SL, HE, HE/FR, HB

PCB – 2

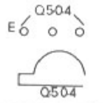
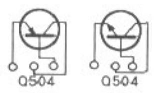
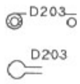
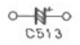

FM/AM TUNER MODULE
CL-J35LD/HE, HE/FR,
CL-J75LD/HE, HE/FR, HB ONLY
CL-J35LD/KU, SD, SD/HO, SL,
CL-J55LD/SD, SD/HO, SL,
CL-J75LD/SD, SL ONLY
Q6101
Q6204
Q6102
Q6214
Q6103
Q6104
VR6201
IC6202
IC6201
Q6217
Q6202
Q6201
Q6203
VR6202
ANP1714-B
CMK-P3X
F6101
L6101
L6102
T6101
F6203
F6204
J6102
J6103
J6106
C6261
C6217
12V
N.C
N.C
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
FM SD
AM/FM
AXQ
ST
MONO
TUNE
MUTE
R6299
R6300
C6227
C6233
C6231
C6246
C6250
C6245
C6243
C6244
C6216
C6219
C6249
X6201
X6202
X6203
5V
7.5V
AM SD
J6125
J6126
PIONEER
MAIN ASSY
CN1003

- This diagram is viewed from the mounted parts side.

NOTE FOR PCB DIAGRAMS:
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

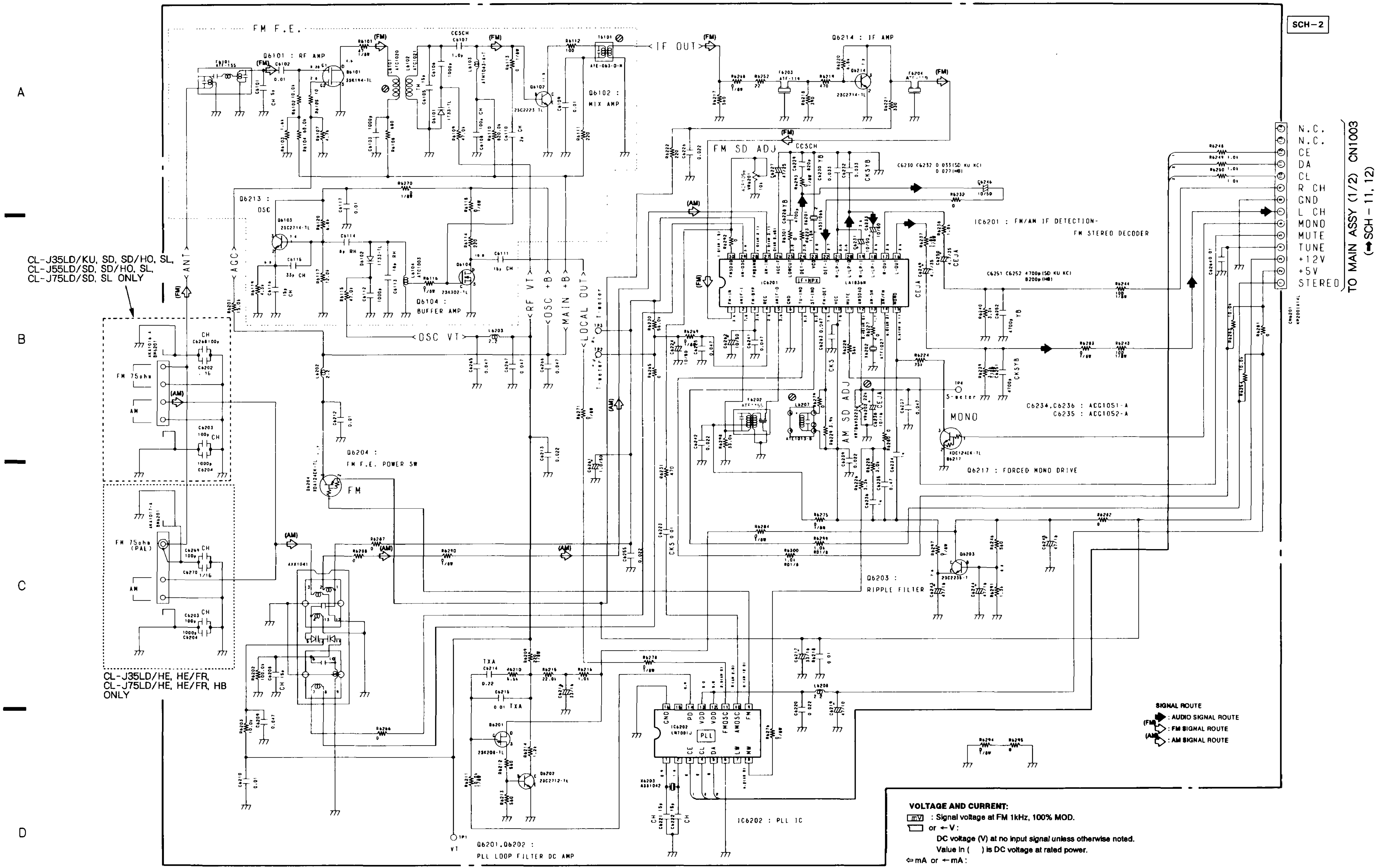
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

NOTE FOR PCB DIAGRAMS:
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

3. The transistor terminal marked with E or [shows the emitter.
4. The diode terminal marked with ◎ or ⊂ shows cathode side.
5. The capacitor terminal marked with ◎ or [shows negative terminal.

FM/AM TUNER MODULE (AXQ1012 : CL-J35LD/KU, SD, SD/HO, SL, CL-J55LD/SD, SD/HO, SL, CL-J75LD/SD, SL)
(AXQ1013 : CL-J35LD/HE, HE/FR, CL-J75LD/HE, HE/FR, HB)


SCH-2
FM F.E.
Q6101 : RF AMP
Q6102 : MIX AMP
Q6213 : OSC
Q6104 : BUFFER AMP
IF OUT
Q6214 : IF AMP
FM SD ADJ
AM SD ADJ
IC6201 : FM/AM IF DETECTION-FM STEREO DECODER
IC6201 LA1836M
IF+MPX
C6230 C6232 0.033(SD KU HC) 0.027(HB)
C6251 C6252 4700p(SD KU HC) 8200p(HB)
C6234, C6236 : ACG1051-A
C6235 : ACG1052-A
MONO
Q6217 : FORCED MONO DRIVE
S-meter
T-meter
ANT
AGC
RF VT
OSC +B
MAIN +B
LOCAL OUT
OSC VT
Q6204 : FM F.E. POWER SW
FM
AM
FM 75ohm
FM 75ohm (PAL)
CL-J35LD/KU, SD, SD/HO, SL, CL-J55LD/SD, SD/HO, SL, CL-J75LD/SD, SL ONLY
CL-J35LD/HE, HE/FR, CL-J75LD/HE, HE/FR, HB ONLY
AXX1041
Q6203 : RIPPLE FILTER
IC6202 LM7001J
PLL
GND PD VDD VDD FMOSC AMOSC FM
CE CL DA LW MW
IC6202 : PLL IC
X6203 ASS1042
Q6201, Q6202 : PLL LOOP FILTER DC AMP
VT
TXA
N.C.
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
TO MAIN ASSY (1/2) CN1003
(➡SCH-11, 12)
SIGNAL ROUTE
➡ : AUDIO SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE
(AM) : AM SIGNAL ROUTE

VOLTAGE AND CURRENT:

mV : Signal voltage at FM 1kHz, 100% MOD.

or ←V :

DC voltage (V) at no input signal unless otherwise noted.

Value in ( ) is DC voltage at rated power.

⇦mA or ←mA :

DC current at no input signal unless otherwise noted.

4.3 FM/AM TUNER MODULE (AXQ1014)

- For CL-J35LD/HEZI/DI, CL-J75LD/HEZI/DI

VOLTAGE AND CURRENT:

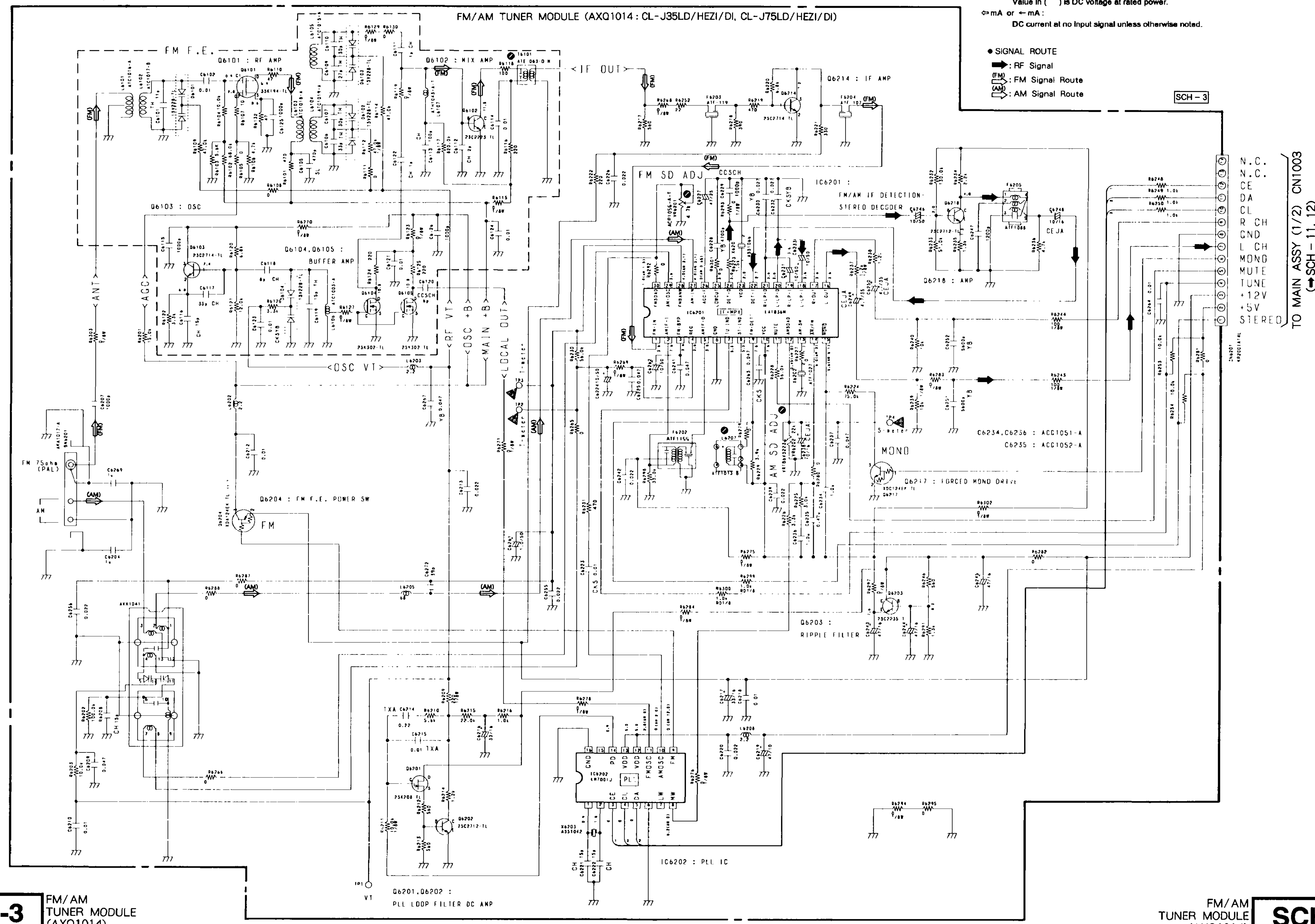
mV : Signal voltage at FM 1kHz, 100% MOD.

▭ or ← V :
DC voltage (V) at no input signal unless otherwise noted.
Value in ( ) is DC voltage at rated power.

⇦ mA or ← mA :
DC current at no input signal unless otherwise noted.

- SIGNAL ROUTE

➡ : RF Signal
(FM)⇨ : FM Signal Route
(AM)⇨ : AM Signal Route


FM/AM TUNER MODULE (AXQ1014 : CL-J35LD/HEZI/DI, CL-J75LD/HEZI/DI)
SCH - 3
FM F.E.
Q6101 : RF AMP
Q6102 : MIX AMP
<IF OUT>
Q6214 : IF AMP
Q6103 : OSC
Q6104, Q6105 : BUFFER AMP
FM SD ADJ
IC6201 : FM/AM IF DETECTION · STEREO DECODER
Q6218 : AMP
CEJA
<ANT>
<AGC>
<RF VT>
<OSC +B>
<MAIN +B>
<LOCAL OUT>
<OSC VT>
T-meter
S-meter
AM SD ADJ
MONO
Q6217 : FORCED MONO DRIVE
C6234, C6236 : ACG1051-A
C6235 : ACG1052-A
FM 75ohm (PAL)
AM
Q6204 : FM F.E. POWER SW
FM
AXX1041
Q6203 : RIPPLE FILTER
IC6202 : PLL IC
GND PD VDD VDD AMOSC FMOSC FM
CE CL DA LW MW
PLL
Q6201, Q6202 : PLL LOOP FILTER DC AMP
VT
N.C.
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
TO MAIN ASSY (1/2) CN1003
(➡SCH - 11, 12)

SCH-3 FM/AM TUNER MODULE (AXQ1014)

FM/AM TUNER MODULE (AXQ1014) **SCH-3**

PCB – 3

FM/AM TUNER MODULE

Q6101

Q6102 Q6204
Q6214

Q6103
|
Q6105

IC6202 VR6201

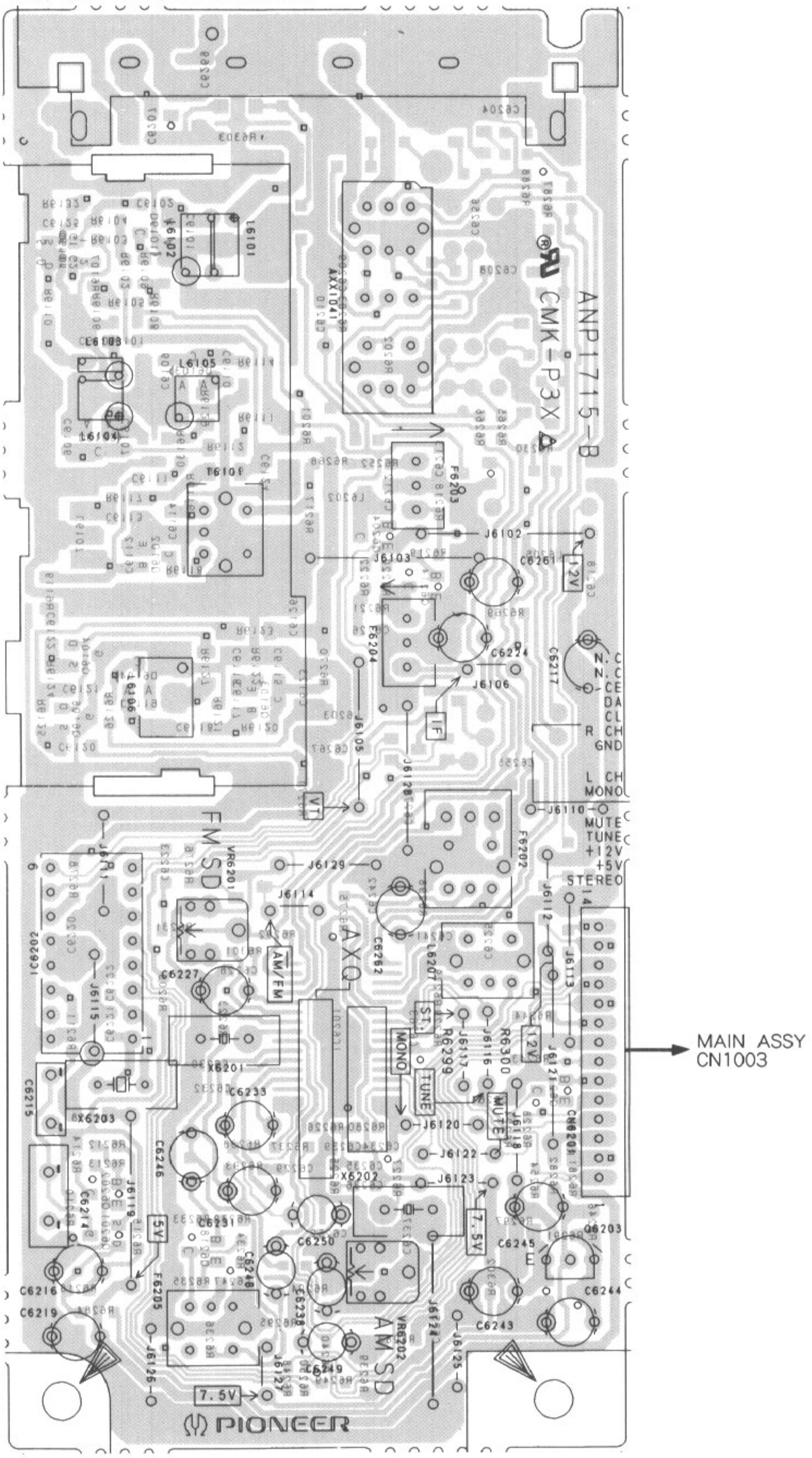
IC6201

Q6217

Q6202

Q6201 Q6203
Q6218

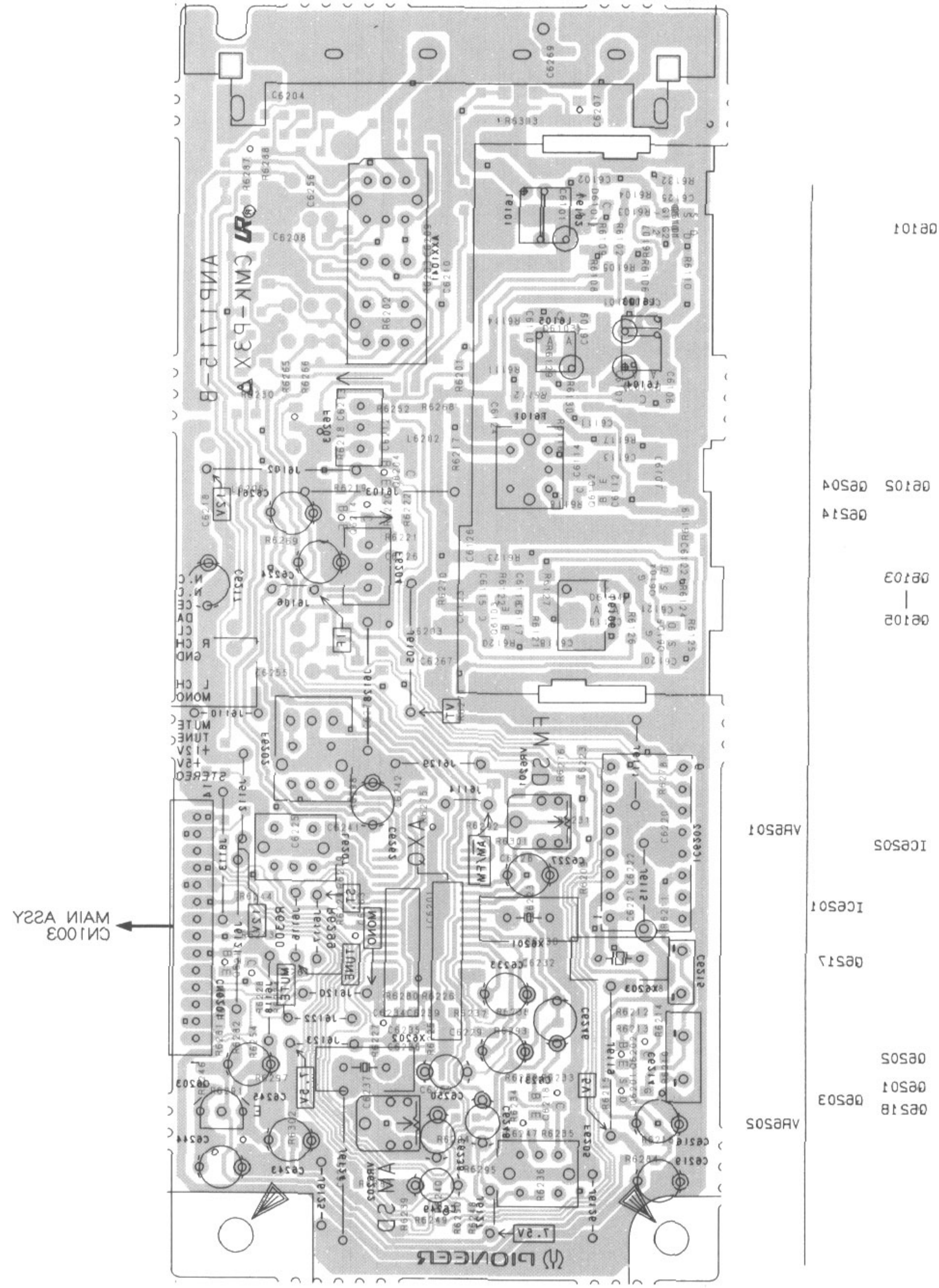
VR6202


ANP1715-B
CMK-P3X
AXX1041
L6101
L6102
L6103
L6104
L6105
L6106
T6101
F6203
F6204
F6202
F6205
J6102
J6103
J6106
J6105
J6128
J6110
J6129
J6114
J6111
J6115
J6112
J6113
J6117
J6116
J6121
J6120
J6122
J6123
J6118
J6119
J6124
J6125
J6126
J6127
C6261
C6224
C6217
C6227
C6262
C6233
C6246
C6215
C6214
C6231
C6250
C6248
C6238
C6249
C6216
C6219
C6245
C6243
C6244
CN6201
IC6202
IC6201
Q6203
X6201
X6202
X6203
L6207
VR6201
VR6202
R6299
R6300
12V
IF
VT
5V
7.5V
ST
MONO
TUNE
MUTE
AM/FM
FM SD
AM SD
AXQ
N.C
N.C
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
14
1
B
E
PIONEER
MAIN ASSY
CN1003

- This diagram is viewed from the mounted parts side.

PCB - 3

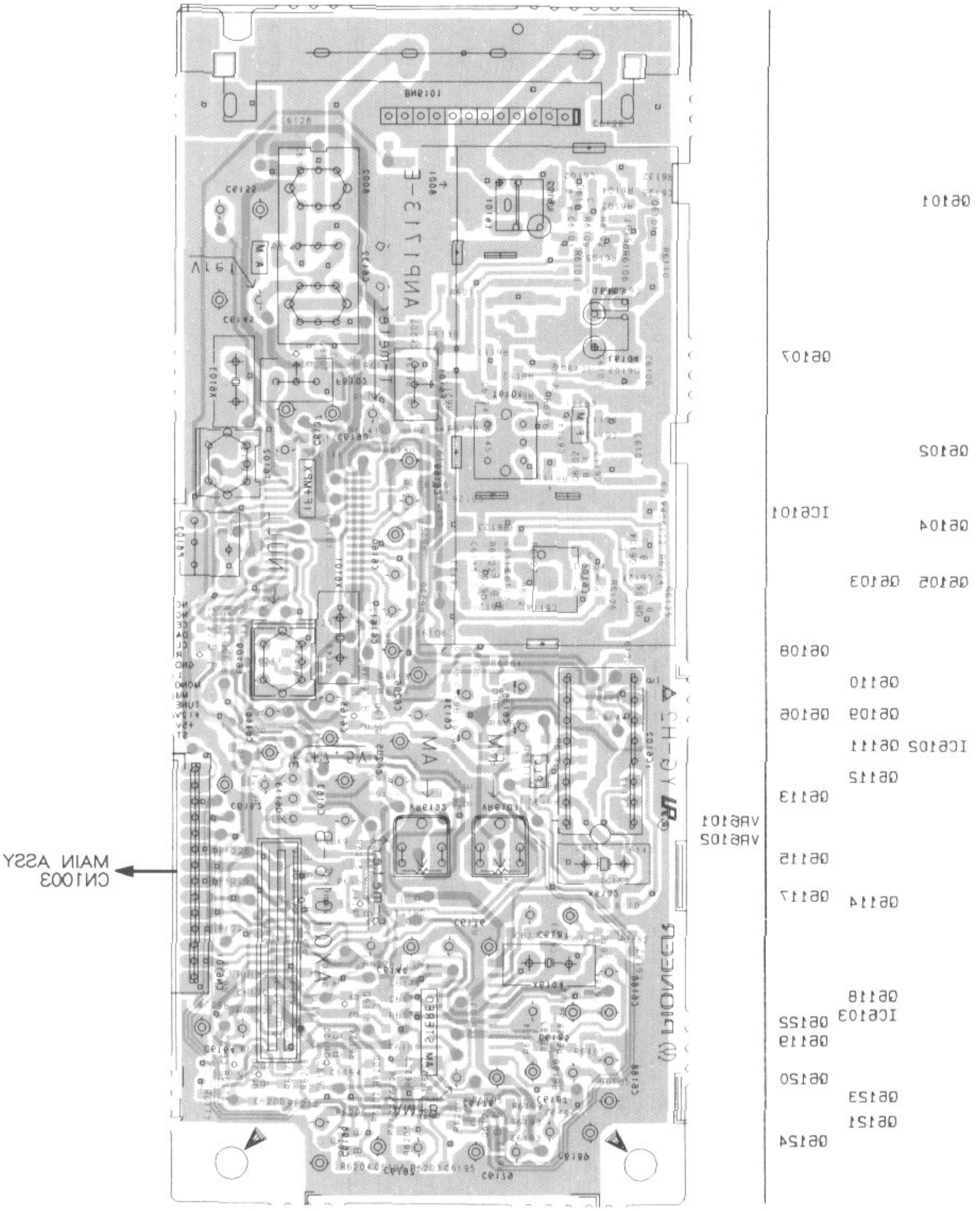
FM/AM TUNER MODULE


MAIN ASSY
CN1003
Q6101
Q6102 Q6204
Q6214
Q6103
Q6105
VR6201
IC6202
IC6201
Q6217
Q6202
Q6201
Q6218
Q6203
VR6202
ANP1715-B
CMK-P3X
N.C
N.C
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
FM SD
AM SD
PIONEER

• This diagram is viewed from the foil side.

PCB - 4

FM/AM TUNER MODULE

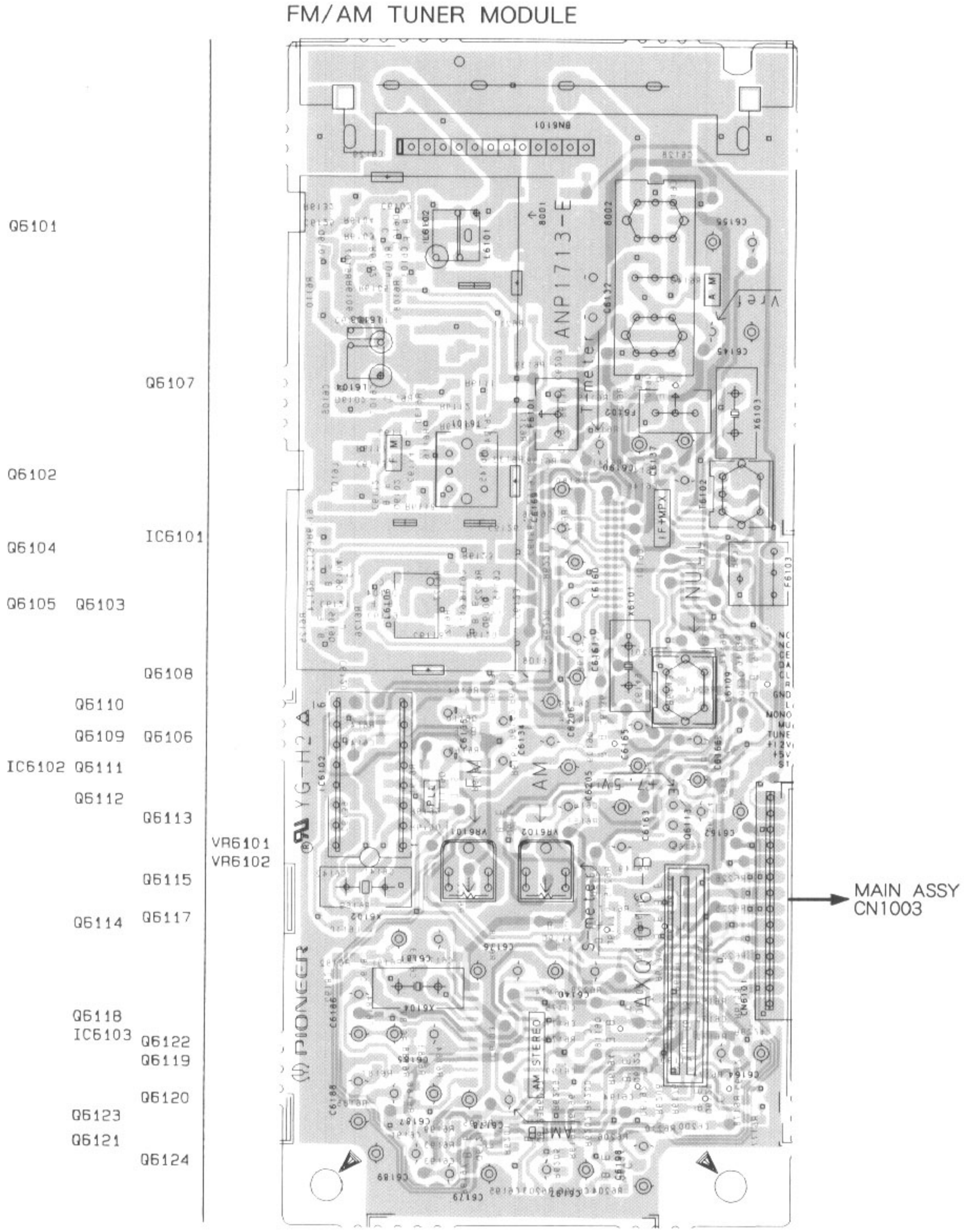

MAIN ASSY
CN1003
Q6101
Q6107
Q6102
IC6101
Q6104
Q6105
Q6103
Q6108
Q6110
Q6109
Q6106
IC6102
Q6111
Q6112
Q6113
VR6101
VR6102
Q6115
Q6117
Q6114
Q6118
IC6103
Q6122
Q6119
Q6120
Q6123
Q6121
Q6124

- This diagram is viewed from the gray colored foil side.
- This PCB is double sided.

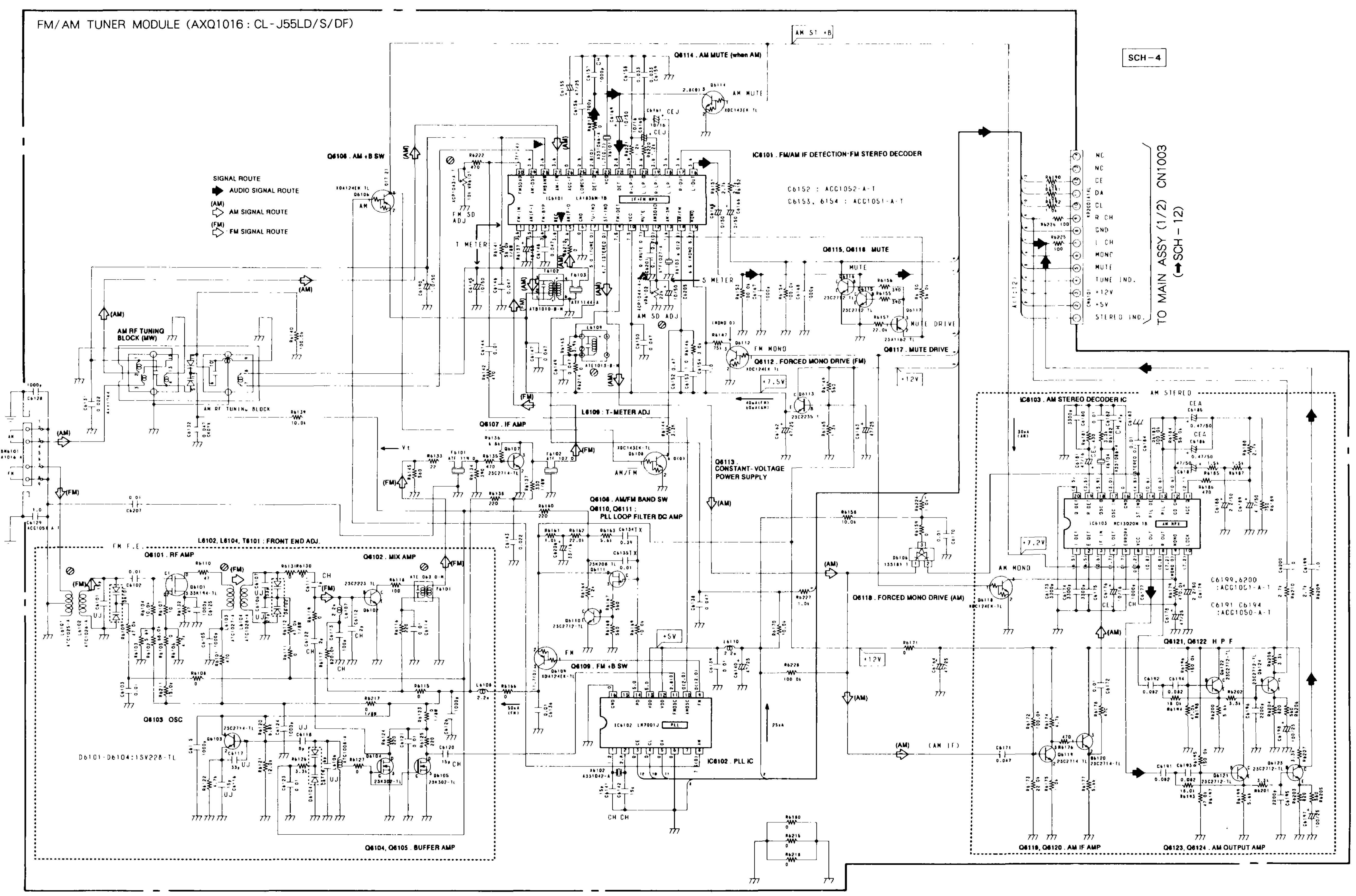
4.4 FM/AM TUNER MODULE (AXQ1016)

- For CL–J55LD/S/DF

PCB – 4


FM/AM TUNER MODULE
Q6101
Q6107
Q6102
Q6104
IC6101
Q6105
Q6103
Q6108
Q6110
Q6109
Q6106
IC6102
Q6111
Q6112
Q6113
VR6101
VR6102
Q6115
Q6114
Q6117
Q6118
IC6103
Q6122
Q6119
Q6120
Q6123
Q6121
Q6124
ANP1713-E
AXQ1016-B
PIONEER
T-meter
S-meter
Vref
NULL
IF+MPX
FM
AM
AM STEREO
MAIN ASSY
CN1003

- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.


FM/AM TUNER MODULE (AXQ1016 : CL-J55LD/S/DF)
AM ST-B
SCH-4
Q6114 : AM MUTE (when AM)
AM MUTE
IC6101 : FM/AM IF DETECTION·FM STEREO DECODER
C6152 : ACG1052-A-T
C6155, 6154 : ACG1051-A-T
Q6106 : AM +B SW
SIGNAL ROUTE
AUDIO SIGNAL ROUTE
(AM) AM SIGNAL ROUTE
(FM) FM SIGNAL ROUTE
FM SD ADJ
T METER
S METER
AM SD ADJ
Q6115, Q6116 : MUTE
MUTE
MUTE DRIVE
Q6117 : MUTE DRIVE
FM MONO
Q6112 : FORCED MONO DRIVE (FM)
+12V
+7.5V
AM RF TUNING BLOCK (MW)
AM RF TUNING BLOCK
Q6107 : IF AMP
L6109 : T-METER ADJ
Q6113 : CONSTANT-VOLTAGE POWER SUPPLY
AM/FM
Q6108 : AM/FM BAND SW
Q6110, Q6111 : PLL LOOP FILTER DC AMP
L6102, L6104, T6101 : FRONT END ADJ.
FM F.E
Q6101 : RF AMP
Q6102 : MIX AMP
Q6103 : OSC
D6101-D6104 : 1SV228-TL
Q6104, Q6105 : BUFFER AMP
Q6109 : FM +B SW
+5V
IC6102 : PLL IC
(AM IF)
Q6118 : FORCED MONO DRIVE (AM)
IC6103 : AM STEREO DECODER IC
AM STEREO
AM MONO
+7.2V
C6199, 6200 : ACG1051-A-T
C6191, C6194 : ACG1050-A-T
Q6121, Q6122 : H P F
Q6119, Q6120 : AM IF AMP
Q6123, Q6124 : AM OUTPUT AMP
NC
NC
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE IND.
+12V
+5V
STEREO IND.
TO MAIN ASSY (1/2) CN1003
(→SCH-12)

VOLTAGE AND CURRENT:

mV : Signal voltage at FM 1kHz, 100% MOD.

▭ or ← V :

DC voltage (V) at no input signal unless otherwise noted.

Value in (   ) is DC voltage at rated power.

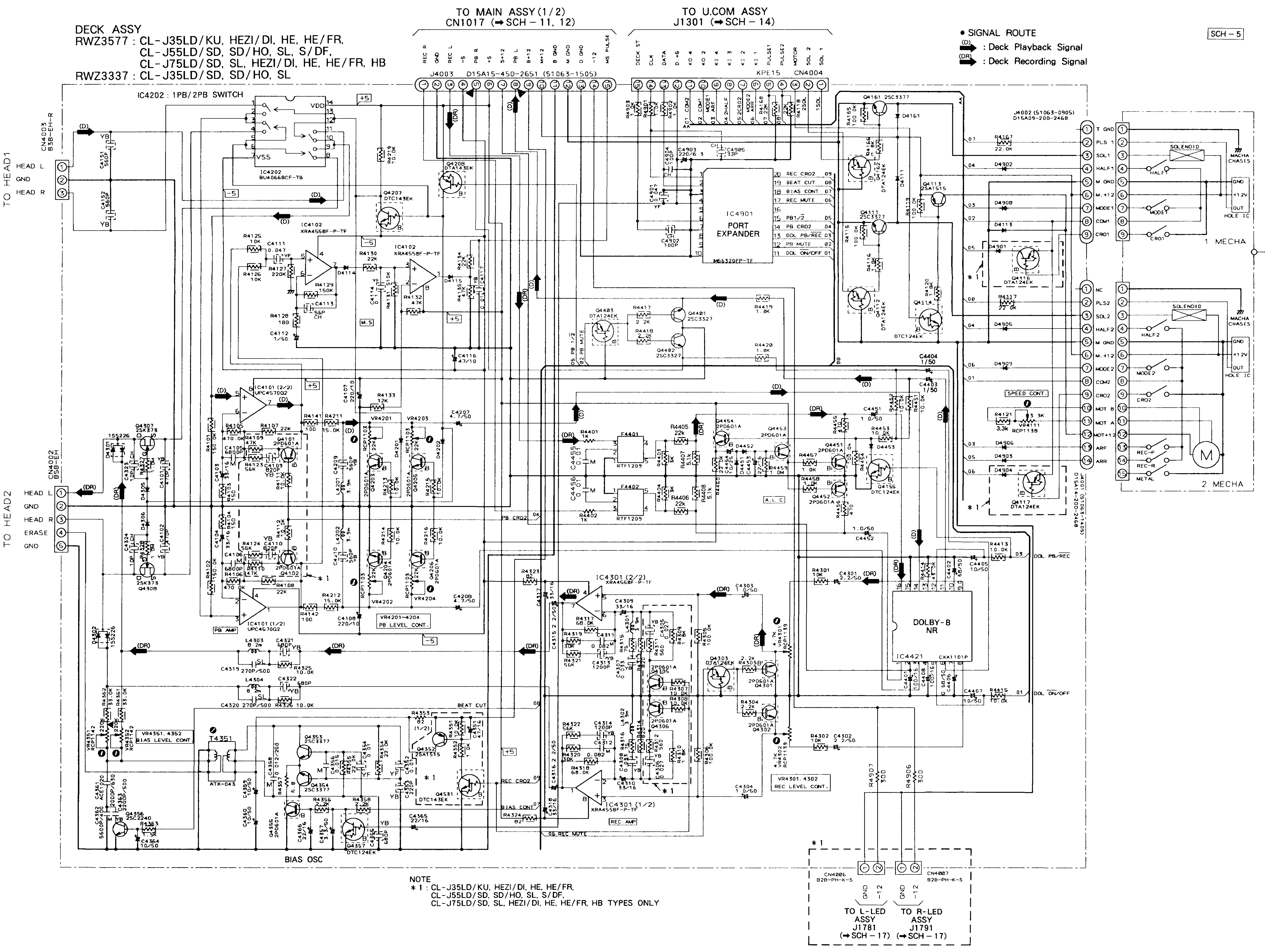
⇦ mA or ← mA :

DC current at no input signal unless otherwise noted.

SCH-4 FM/AM
TUNER MODULE
(AXQ1016)

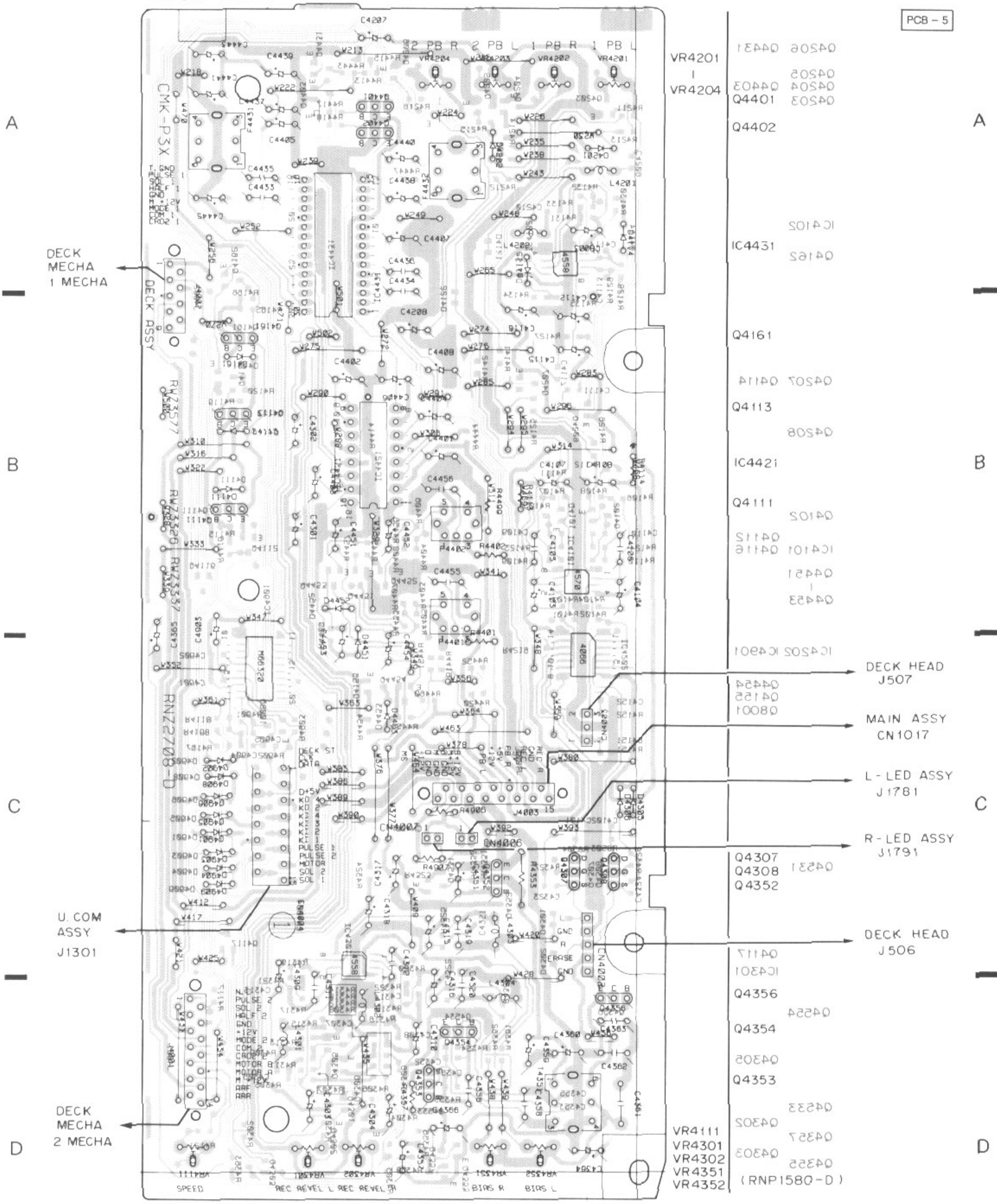
FM/AM
TUNER MODULE
(AXQ1016) **SCH-4**

4.5 DECK ASSY


DECK ASSY
RWZ3577 : CL-J35LD/KU, HEZI/DI, HE, HE/FR, CL-J55LD/SD, SD/HO, SL, S/DF, CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB
RWZ3337 : CL-J35LD/SD, SD/HO, SL
TO MAIN ASSY (1/2) CN1017 (➡SCH-11, 12)
TO U.COM ASSY J1301 (➡SCH-14)
● SIGNAL ROUTE
(D) : Deck Playback Signal
(DR) : Deck Recording Signal
SCH-5
J4003 D15A15-450-2651 (51063-1505)
KPE15 CN4004
IC4202 : 1PB/2PB SWITCH
IC4202 BU4066BCF-TB
IC4102 XRA4558F-P-TF
IC4101 (2/2) UPC4570G2
IC4101 (1/2) UPC4570G2
IC4901 PORT EXPANDER M66320FP-TF
IC4301 (2/2) XRA4558F-P-TF
IC4301 (1/2) XRA4558F-P-TF
DOLBY-B NR IC4421 CXA1101P
TO HEAD1
HEAD L
GND
HEAD R
TO HEAD2
HEAD L
GND
HEAD R
ERASE
GND
CN4003 B3B-EH-R
CN4002 B5B-EH
PB AMP
VR4201~4204 PB LEVEL CONT.
REC AMP
VR4301, 4302 REC LEVEL CONT.
VR4351, 4352 BIAS LEVEL CONT.
BIAS OSC
BEAT CUT
A.L.C
SPEED CONT.
J4002 (51063-0905) D15A09-200-2468
T GND
PLS 1
SOL1
HALF1
M GND
M. +12
MODE1
COM1
CRO1
NC
PLS2
SOL2
HALF2
M GND
M. +12
MODE2
COM2
CRO2
MOT B
MOT A
MOT+12
ARF
ARR
SOLENOID
MACHA CHASIS
HOLE IC
1 MECHA
2 MECHA
CHASSIS GND
REC-F
REC-R
METAL
M
CN4006 B2B-PH-K-5
CN4007 B2B-PH-K-5
GND
-12
TO L-LED ASSY J1781 (➡SCH-17)
TO R-LED ASSY J1791 (➡SCH-17)
*1

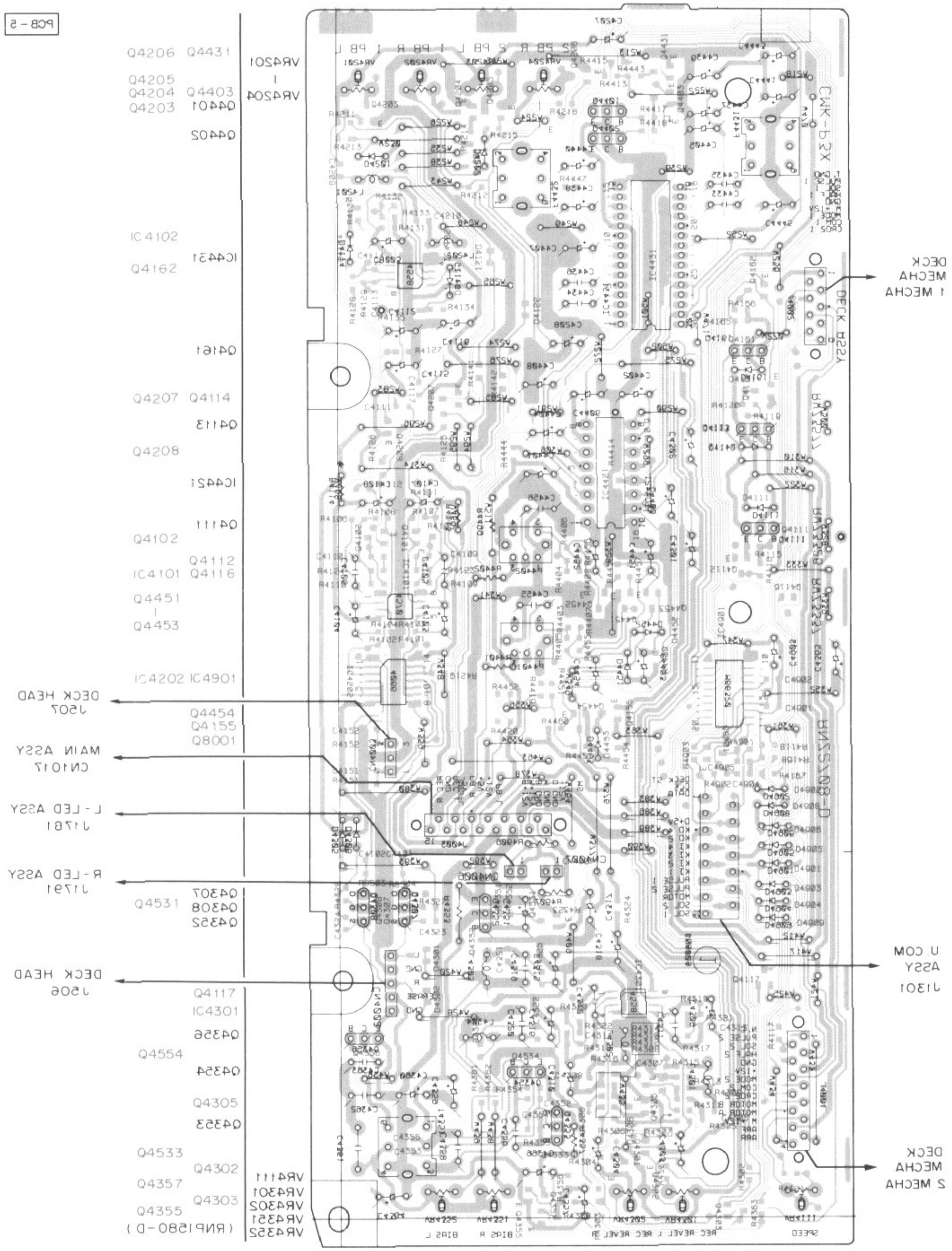
NOTE
*1 : CL-J35LD/KU, HEZI/DI, HE, HE/FR,
CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB TYPES ONLY

DECK ASSY


PCB – 5
1
2
A
B
C
D
2 PB R
2 PB L
1 PB R
1 PB L
VR4201
|
VR4204
Q4401
Q4402
IC4431
Q4161
Q4113
IC4421
Q4111
Q4307
Q4308
Q4352
Q4356
Q4354
Q4353
VR4111
VR4301
VR4302
VR4351
VR4352
(RNP1580－D)
DECK MECHA
1 MECHA
DECK ASSY
CMK-P3X
DECK HEAD
J507
MAIN ASSY
CN1017
L - LED ASSY
J1781
R - LED ASSY
J1791
DECK HEAD
J506
U. COM
ASSY
J1301
DECK MECHA
2 MECHA
RNZ2708-D
SPEED
REC REVEL L
REC REVEL R
BIAS R
BIAS L

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

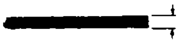
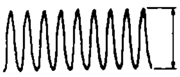
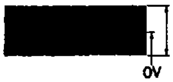
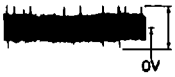
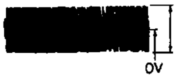
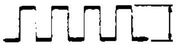
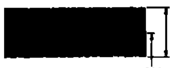
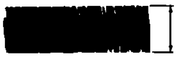
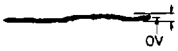
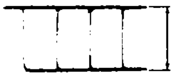
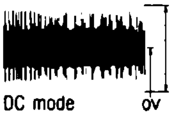
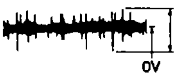
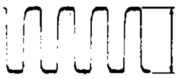
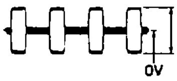
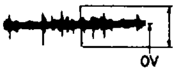
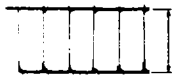
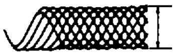
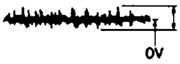
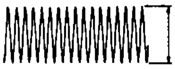
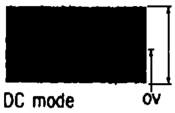
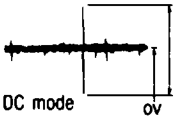
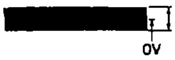
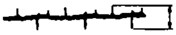
DECK ASSY


PCB - 5
Q4206 Q4431
Q4205
Q4204 Q4403
Q4203 Q4401
Q4402
VR4201 - VR4204
IC4102
IC4431
Q4162
Q4161
Q4207 Q4114
Q4113
Q4208
IC4421
Q4111
Q4102
Q4112
IC4101 Q4116
Q4451 - Q4453
IC4202 IC4901
Q4454
Q4155
Q8001
Q4307
Q4531 Q4308
Q4352
Q4117
IC4301
Q4356
Q4554
Q4354
Q4305
Q4353
Q4533
Q4302
Q4357
Q4355 Q4303
(RNP1580-D)
VR4111
VR4301
VR4302
VR4351
VR4352
DECK HEAD J507
MAIN ASSY CN1017
L-LED ASSY J1781
R-LED ASSY J1791
DECK HEAD J506
DECK MECHA 1 MECHA
U COM ASSY J1301
DECK MECHA 2 MECHA
DECK ASSY
PB L 1 PB R 1 PB L 2 PB R 2
BIAS L
BIAS R
REC LEVEL R
REC LEVEL L
SPEED
A
B
C
D

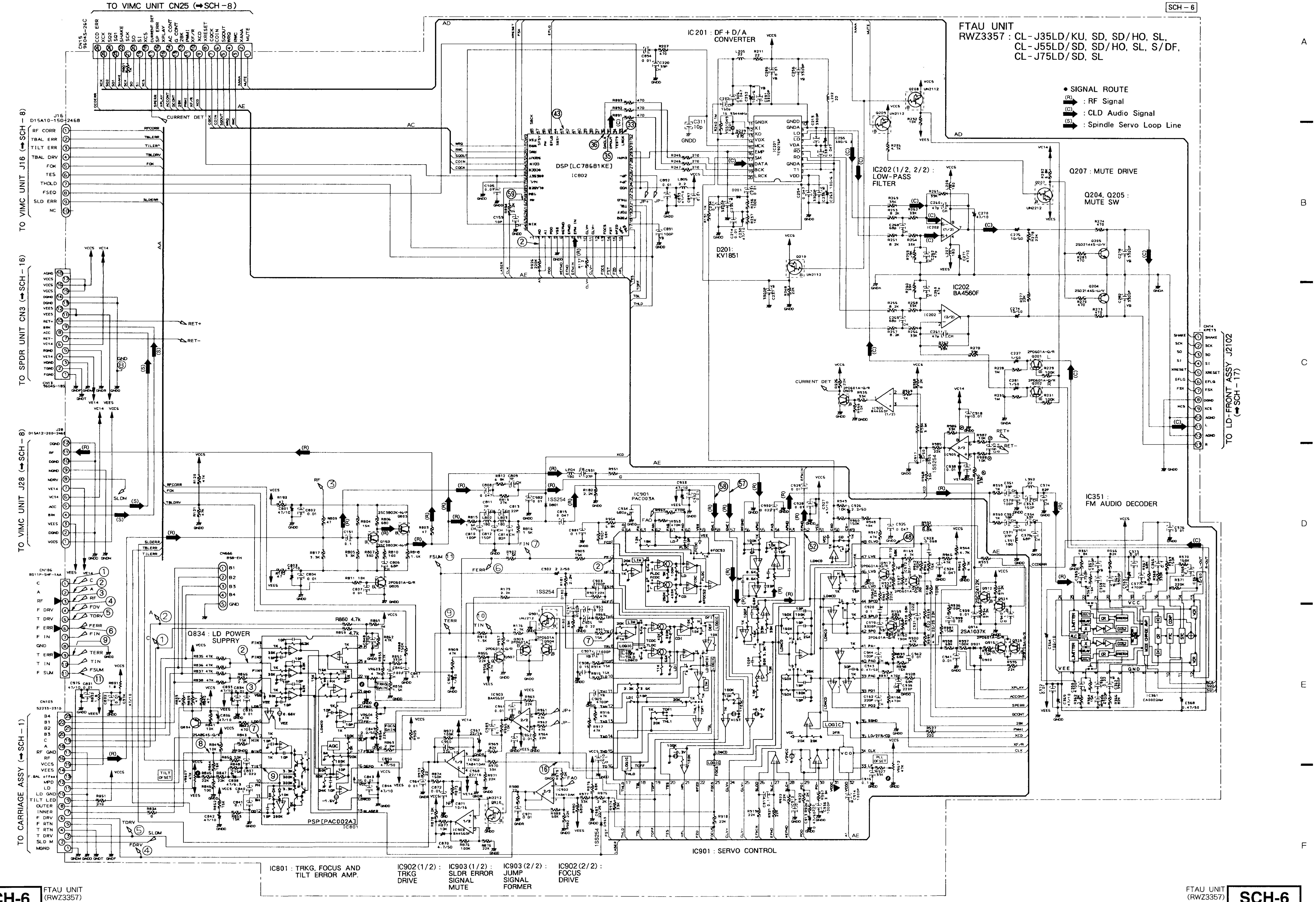
- This diagram is viewed from the foil side.

WAVEFORMS OF FTAU UNIT

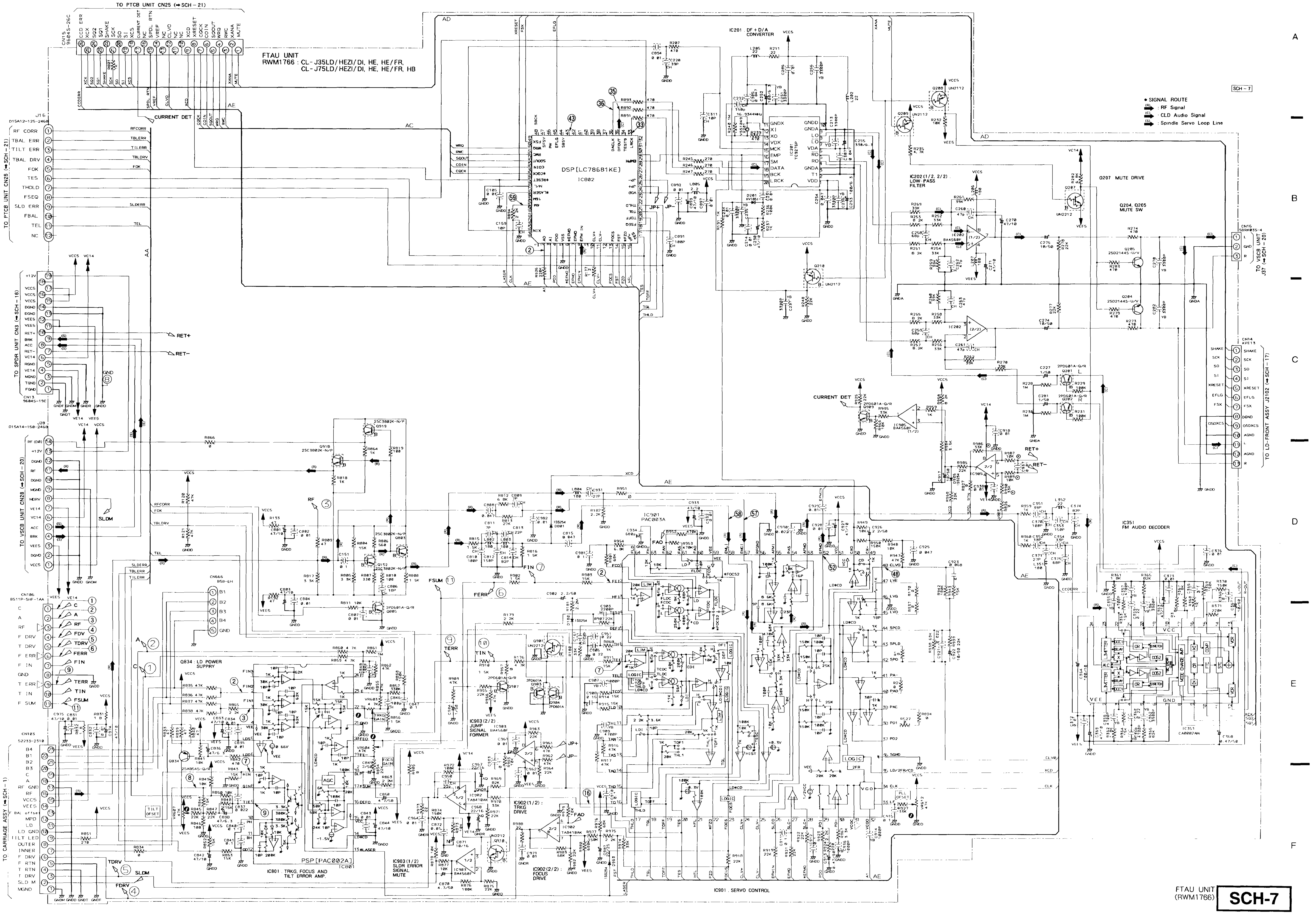
Note : (No.) in the table correspond to the pin number.
Measurent condition : In case when (D. audio) is written, at time when disc that has digital audio recording is played.

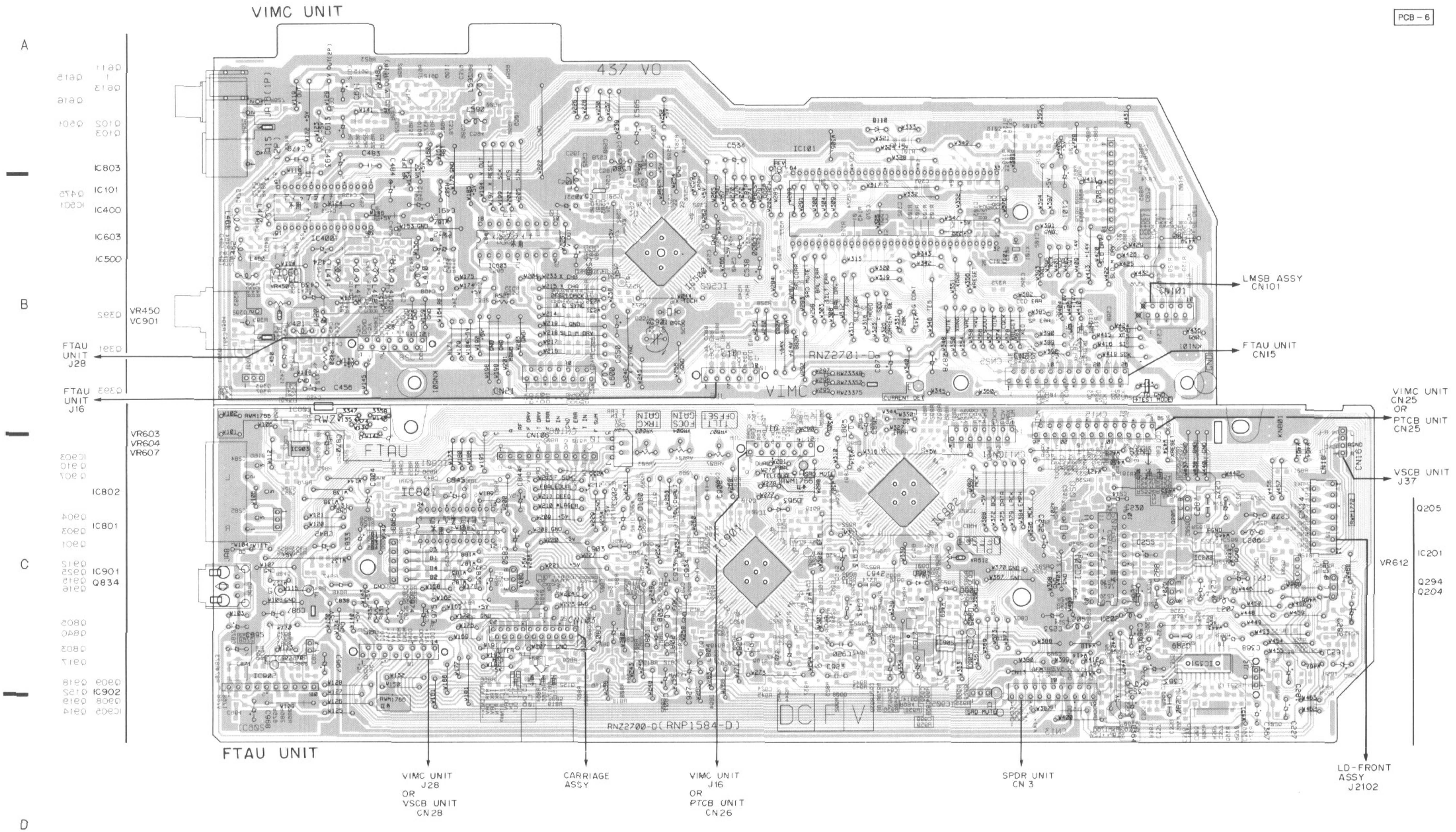
IC801(PAC002A)	IC802(LC78681KE)	IC901(PAC003A)	CN106
②, ③ 1mS/Div. 16mVp-p  AC mode	② 0.1μS/Div. 4.3Vp-p  AC mode(D.audio)	② 0.2mS/Div. 74mVp-p  DC mode	①, ② 5mS/Div. 65mVp-p  DC mode
⑦, ⑧ 1mS/Div. 67mVp-p  DC mode	㉝ 10μS/Div. 4.2Vp-p  AC mode(D.audio)	⑦ 0.2mS/Div. 74mVp-p  DC mode	③ 0.5mS/Div. 300mVp-p  AC mode
⑨ 5mS/Div. 0.1Vp-p  DC mode	㉟ 0.2μS/Div. 4.4Vp-p  AC mode(D.audio)	⑯ 0.2mS/Div. 0.61Vp-p  DC mode	④ 5mS/Div. 15Vp-p  DC mode
	㊱ 0.2μS/Div. 4.5Vp-p  AC mode(D.audio)	㊽ 50μS/Div. 6.2Vp-p  DC mode	⑤ 5mS/Div. 5.8Vp-p  DC mode
	㊸ 0.1μS/Div. 4.5Vp-p  AC mode(D.audio)	(52) 0.2μS/Div. 2.1Vp-p  AC mode	⑥ 5mS/Div. 3.5Vp-p  DC mode
	(59) 0.1μS/Div. 2Vp-p  AC mode(D.audio)	(57) 1mS/Div. 0.53Vp-p  DC mode	⑨ 5mS/Div. 1.25Vp-p  DC mode
		(58) 0.2mS/Div. 0.32Vp-p  DC mode	⑪ 10mS/Div. 1.7Vp-p  DC mode

4.6 FTAU UNIT (RWZ3357)

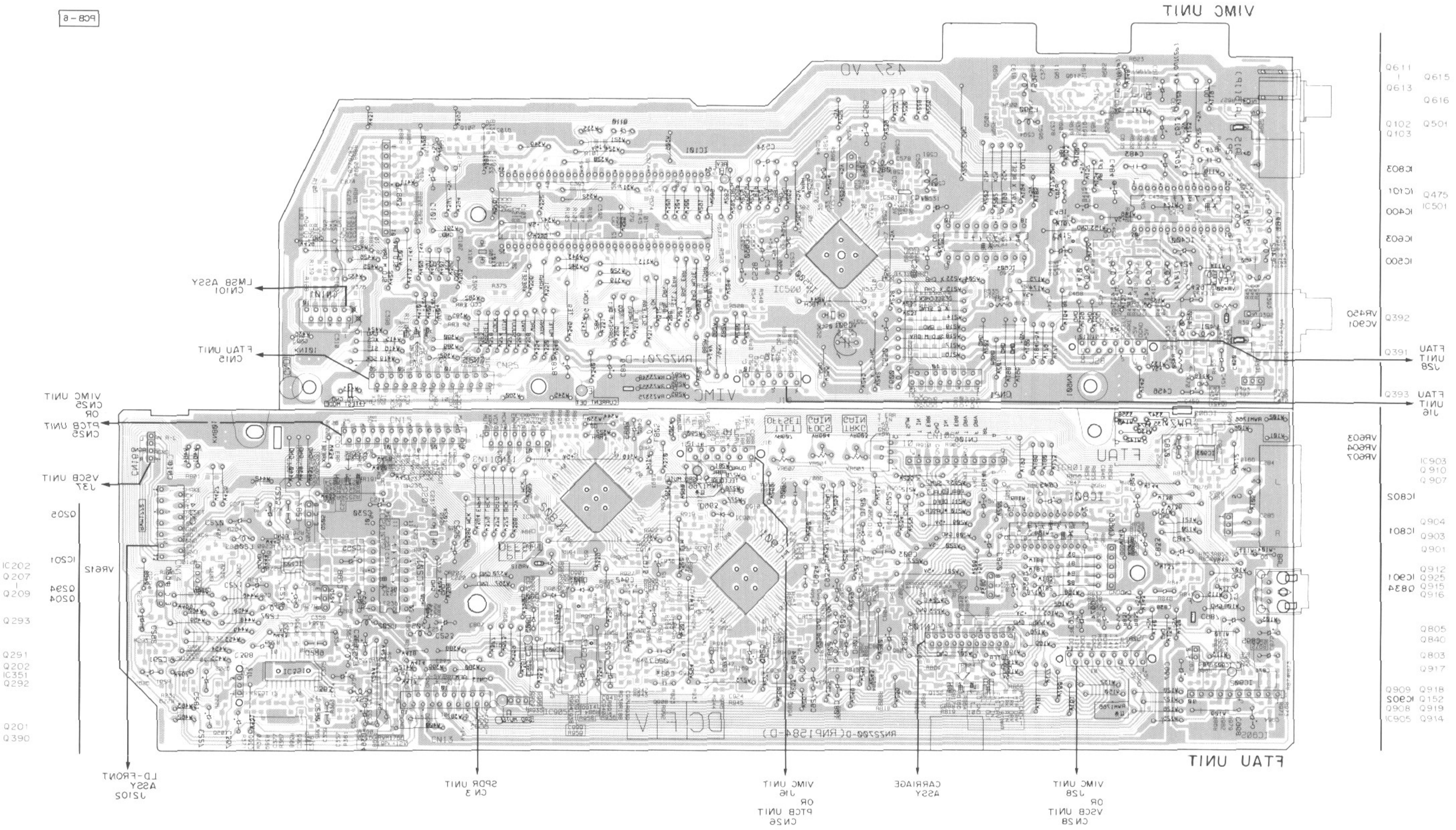

SCH-6
FTAU UNIT
RWZ3357 : CL-J35LD/KU, SD, SD/HO, SL,
CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL
● SIGNAL ROUTE
(R) : RF Signal
(C) : CLD Audio Signal
(S) : Spindle Servo Loop Line
TO VIMC UNIT CN25 (→SCH-8)
TO VIMC UNIT J16 (→SCH-8)
RF CORR
TBAL ERR
TILT ERR
TBAL DRV
FOK
TES
THOLD
FSEQ
SLD ERR
NC
TO SPDR UNIT CN3 (→SCH-16)
RET+
RET−
TO VIMC UNIT J28 (→SCH-8)
TO CARRIAGE ASSY (→SCH-1)
TO LD-FRONT ASSY J2102 (→SCH-17)
SHAKE
SCK
SO
SI
XRESET
EFLG
FSX
DGND
XCS
AGND
L
R
IC201 : DF + D/A CONVERTER
DSP [LC78681KE]
IC802
IC202 (1/2, 2/2) : LOW-PASS FILTER
IC202 BA4560F
Q207 : MUTE DRIVE
Q204, Q205 : MUTE SW
D201 : KV1851
CURRENT DET
IC901 PAC003A
IC351 : FM AUDIO DECODER
Q834 : LD POWER SUPPRY
PSP [PAC002A]
IC801
TILT OFSET
AGC
LOGIC
VCO
PLL OFSET
IC901 : SERVO CONTROL
IC801 : TRKG, FOCUS AND TILT ERROR AMP.
IC902 (1/2) : TRKG DRIVE
IC903 (1/2) : SLDR ERROR SIGNAL MUTE
IC903 (2/2) : JUMP SIGNAL FORMER
IC902 (2/2) : FOCUS DRIVE
2SA1037K
2SC2412K
UN2112
UN2212
1SS254
BA4560F
TA8410AK
CA0002AM

4.7 FTAU UNIT (RWM1766)


TO PTCB UNIT CN25 (→SCH-21)
FTAU UNIT
RWM1766 : CL-J35LD/HEZI/DI, HE, HE/FR,
CL-J75LD/HEZI/DI, HE, HE/FR, HB
DSP[LC78681KE]
IC802
IC201 DF + D/A CONVERTER
IC202(1/2, 2/2) LOW-PASS FILTER
Q207 MUTE DRIVE
Q204, Q205 MUTE SW
SCH-7
● SIGNAL ROUTE
(R) : RF Signal
(C) : CLD Audio Signal
(S) : Spindle Servo Loop Line
TO PTCB UNIT CN26 (→SCH-21)
TO SPDR UNIT CN3 (→SCH-16)
TO VSCB UNIT CN28 (→SCH-20)
TO CARRIAGE ASSY (→SCH-1)
TO VSCB UNIT J37 (→SCH-20)
TO LD-FRONT ASSY J2102 (→SCH-17)
CURRENT DET
RET+
RET−
SLDM
IC901 PAC003A
IC351 FM AUDIO DECODER
Q834 LD POWER SUPPRY
PSP[PAC002A] IC801
IC801 TRKG, FOCUS AND TILT ERROR AMP.
IC903(2/2) JUMP SIGNAL FORMER
IC902(1/2) TRKG DRIVE
IC902(2/2) FOCUS DRIVE
IC903(1/2) SLDR ERROR SIGNAL MUTE
IC901 : SERVO CONTROL
TDRV
FDRV
FTAU UNIT (RWM1766)


VIMC UNIT
PCB – 6
437 V0
IC803
IC101
IC400
IC603
IC500
VR450
VC901
FTAU UNIT J28
FTAU UNIT J16
LMSB ASSY CN101
FTAU UNIT CN15
RNZ2701-D
VIMC
VIMC UNIT CN25 OR PTCB UNIT CN25
VSCB UNIT J37
VR603
VR604
VR607
IC802
IC801
IC901
Q834
IC902
FTAU
Q205
IC201
VR612
Q294
Q204
RNZ2700-D(RNP1584-D)
DC F V
FTAU UNIT
VIMC UNIT J28 OR VSCB UNIT CN28
CARRIAGE ASSY
VIMC UNIT J16 OR PTCB UNIT CN26
SPDR UNIT CN 3
LD-FRONT ASSY J2102

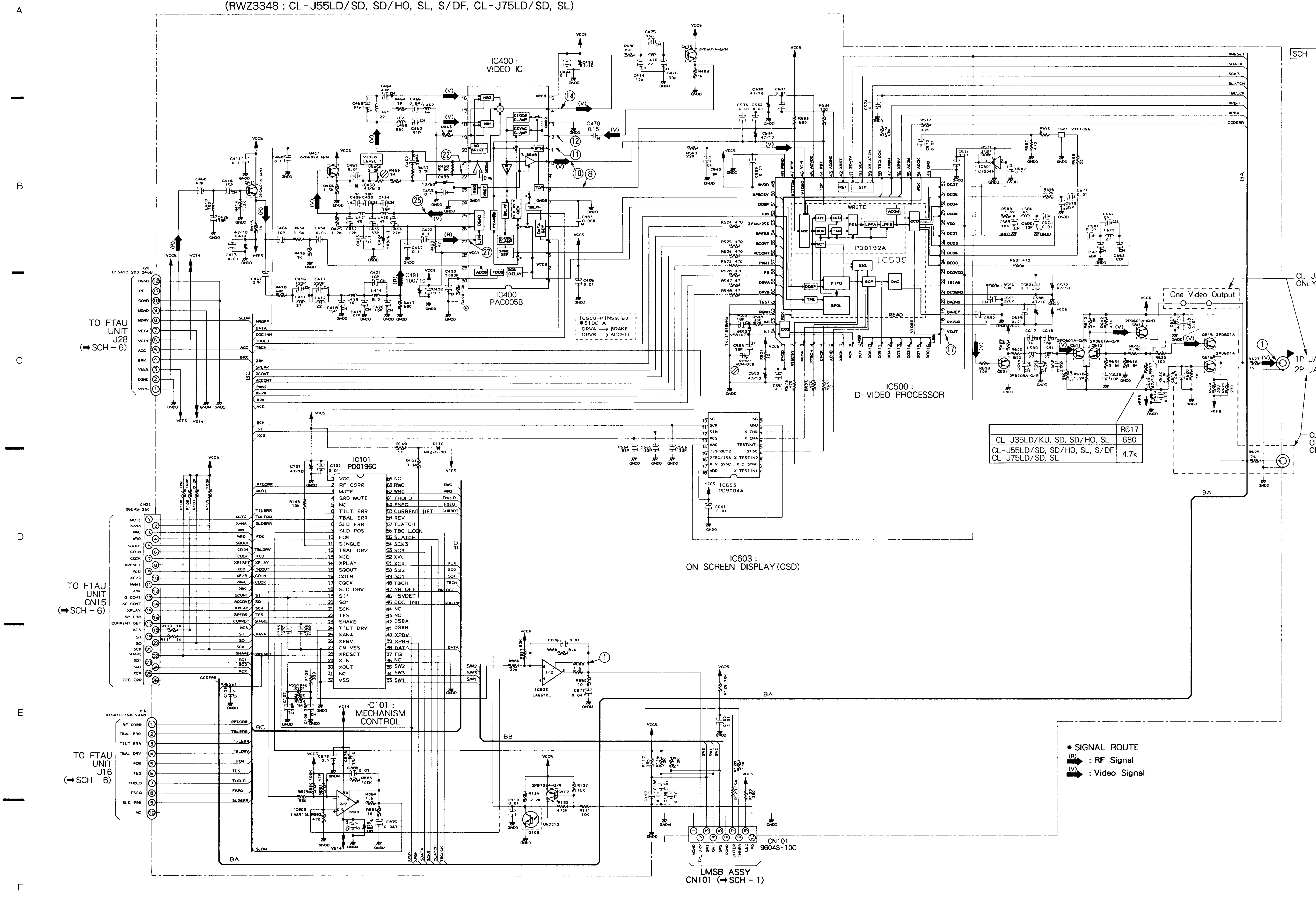
- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.


PCB - 6
VIMC UNIT
FTAU UNIT
LM58 ASSY
CN101
FTAU UNIT
CN15
VIMC UNIT
CN25
OR
PTCB UNIT
CN25
VSCB UNIT
J37
FTAU
UNIT
J28
FTAU
UNIT
J16
LD-FRONT
ASSY
J2102
SPDR UNIT
CN 3
VIMC UNIT
J16
OR
PTCB UNIT
CN26
CARRIAGE
ASSY
VIMC UNIT
J28
OR
VSCB UNIT
CN28

- This diagram is viewed from the foil side.

4.8 VIMC UNIT

VIMC UNIT (RWZ3358 : CL-J35LD/KU, SD, SD/HO, SL)
(RWZ3348 : CL-J55LD/SD, SD/HO, SL, S/DF, CL-J75LD/SD, SL)

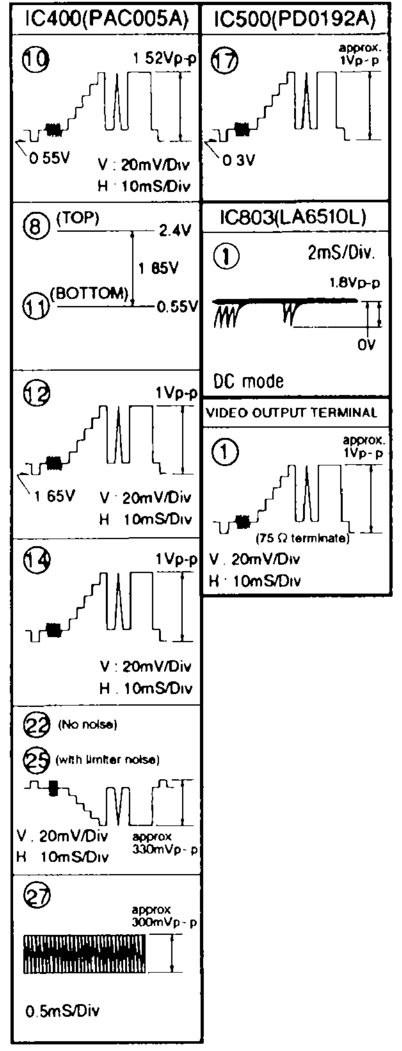

IC400 : VIDEO IC
IC400 PAC005B
IC500 : D-VIDEO PROCESSOR
PD0192A
IC603 : ON SCREEN DISPLAY (OSD)
IC603 PD3004A
IC101 : MECHANISM CONTROL
IC101 PD0196C
IC803 LA6510L
TO FTAU UNIT J28 (➡SCH-6)
TO FTAU UNIT CN15 (➡SCH-6)
TO FTAU UNIT J16 (➡SCH-6)
LMSB ASSY CN101 (➡SCH-1)
CN101 9604S-10C
SCH-8
One Video Output
CL-J35LD/KU, SD, SD/HO, SL ONLY
CL-J55LD/SD, SD/HO, SL, S/DF, CL-J75LD/SD, SL ONLY
1P JA16 : RKB1038
2P JA15 : RKB1039
VIDEO OUT
IC500-PINS9, 60 ●SIDE A DRVA → BRAKE DRVB → ACCELL
BA
BB
BC

	R617
CL-J35LD/KU, SD, SD/HO, SL	680
CL-J55LD/SD, SD/HO, SL, S/DF CL-J75LD/SD, SL	4.7k

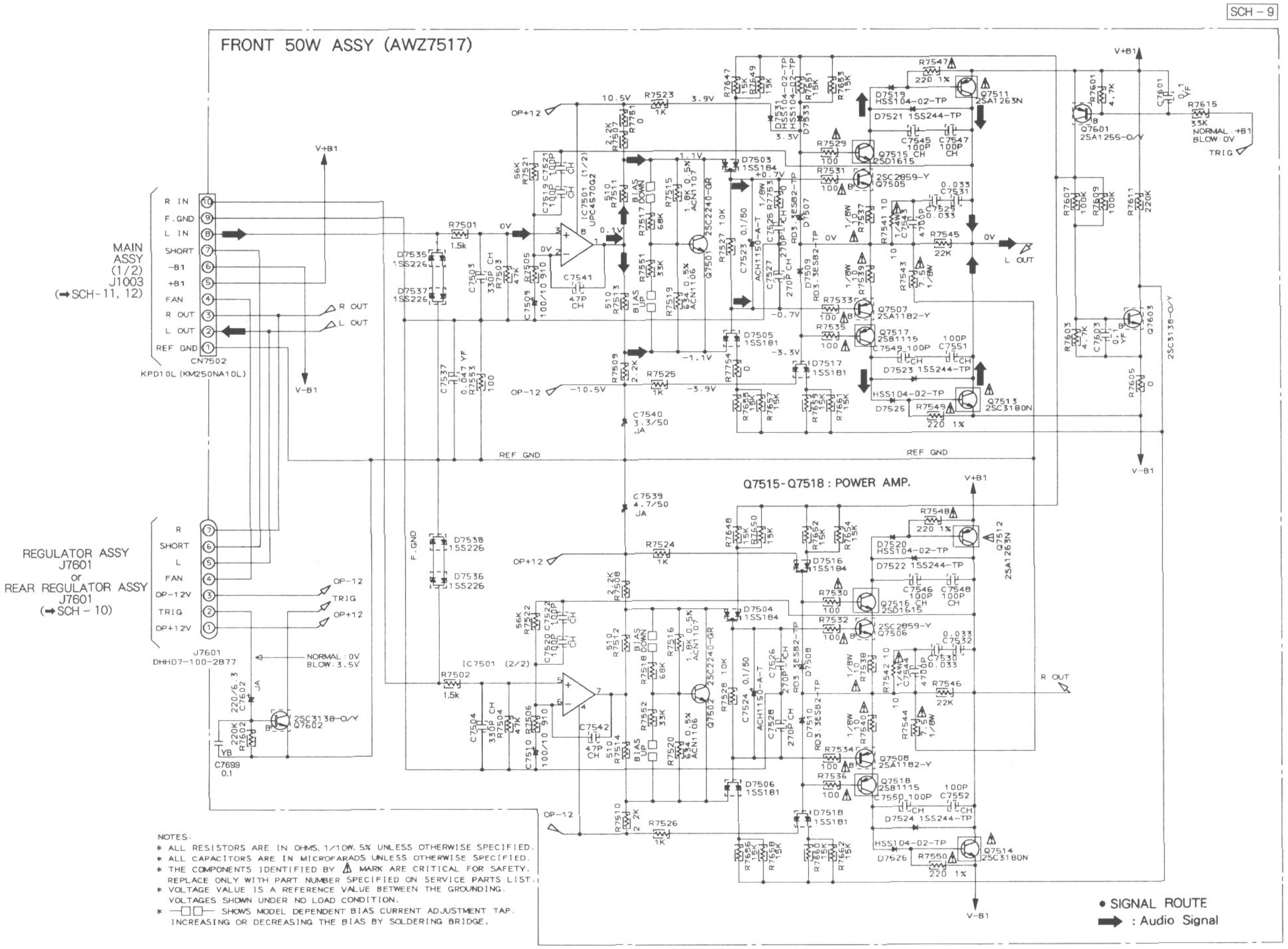
● SIGNAL ROUTE
(R) ➡ : RF Signal
(V) ➡ : Video Signal

WAVEFORMS OF VIMC UNIT

Note : (No.) in the table correspond to the pin number.



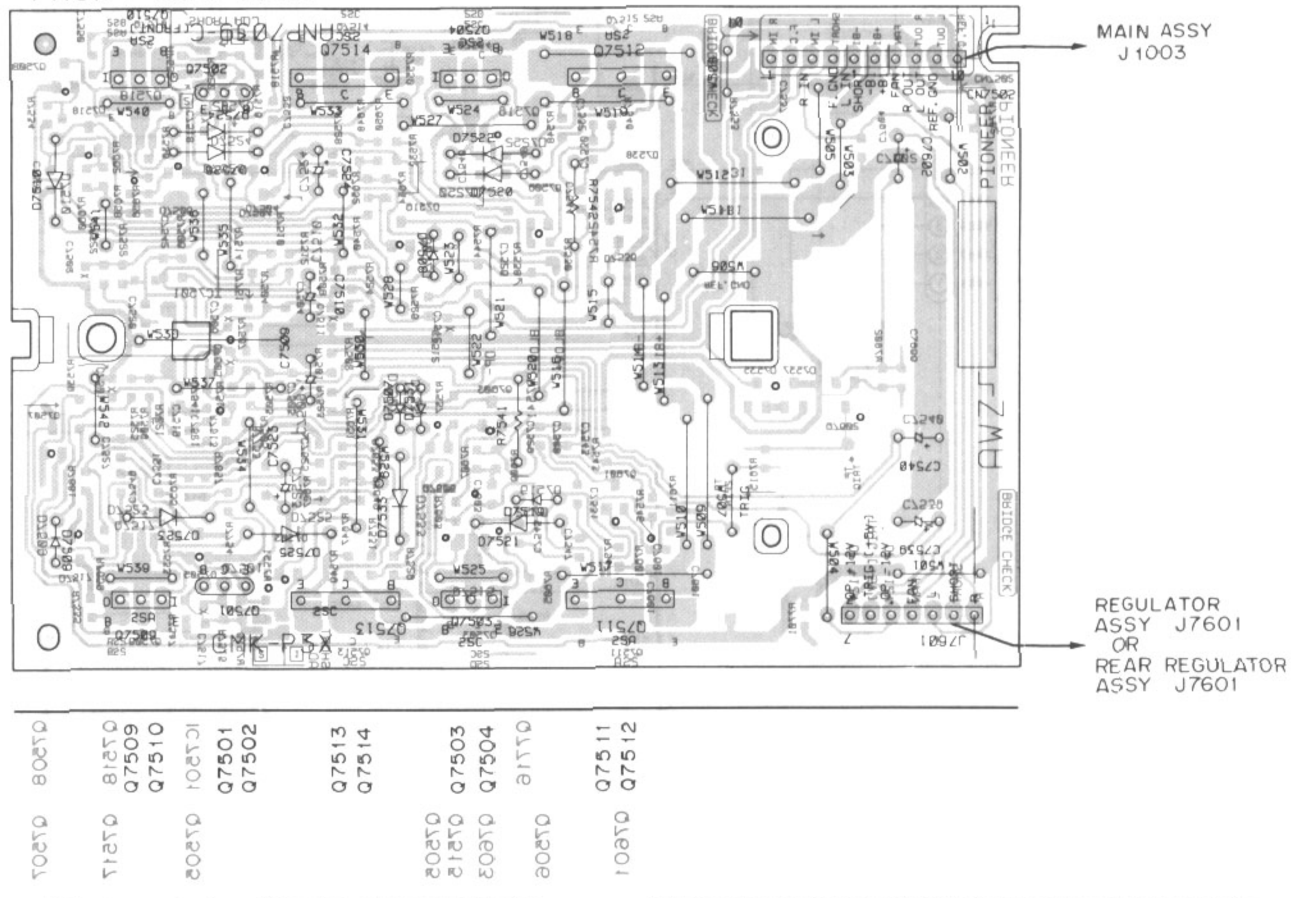
4.9 FRONT 50W ASSY


SCH - 9
FRONT 50W ASSY (AWZ7517)
MAIN ASSY (1/2) J1003 (➡SCH-11, 12)
R IN
F.GND
L IN
SHORT
-B1
+B1
FAN
R OUT
L OUT
REF GND
CN7502
KPD10L (KM250NA10L)
REGULATOR ASSY J7601 or REAR REGULATOR ASSY J7601 (➡SCH - 10)
OP-12V
TRIG
OP+12V
J7601
DHH07-100-2877
NORMAL : 0V
BLOW : 3.5V
2SC3138-O/Y
Q7602
IC7501 (1/2)
UPC4570G2
IC7501 (2/2)
Q7515-Q7518 : POWER AMP.
V+B1
V-B1
OP+12
OP-12
REF GND
L OUT
R OUT
Q7601
2SA1255-O/Y
R7615
33K
NORMAL : +B1
BLOW : 0V
TRIG
Q7603
2SC3138-O/Y
Q7511
2SA1263N
Q7512
2SA1263N
Q7513
2SC3180N
Q7514
2SC3180N
Q7505
2SC2859-Y
Q7506
2SC2859-Y
Q7507
2SA1182-Y
Q7508
2SA1182-Y
Q7515
2SD1615
Q7516
2SD1615
Q7517
2SB1115
Q7518
2SB1115
Q7501
2SC2240-GR
Q7502
2SC2240-GR
BIAS DOWN
BIAS UP
• SIGNAL ROUTE
➡ : Audio Signal

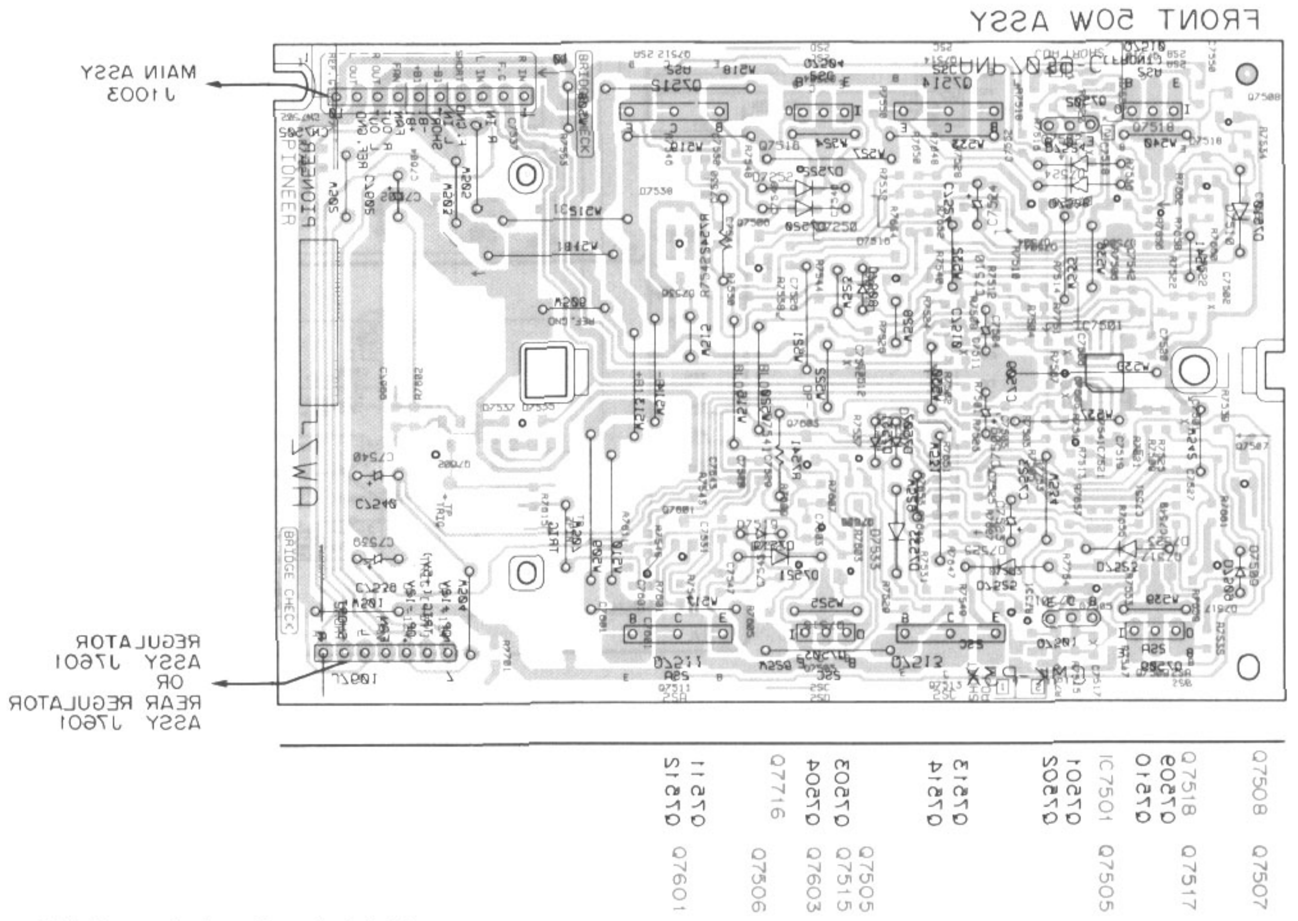
NOTES:
* ALL RESISTORS ARE IN OHMS, 1/10W, 5% UNLESS OTHERWISE SPECIFIED.
* ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
* THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR SAFETY.
REPLACE ONLY WITH PART NUMBER SPECIFIED ON SERVICE PARTS LIST.
* VOLTAGE VALUE IS A REFERENCE VALUE BETWEEN THE GROUNDING.
VOLTAGES SHOWN UNDER NO LOAD CONDITION.
* —□□— SHOWS MODEL DEPENDENT BIAS CURRENT ADJUSTMENT TAP.
INCREASING OR DECREASING THE BIAS BY SOLDERING BRIDGE.

PCB - 7

FRONT 50W ASSY


MAIN ASSY
J1003
REGULATOR ASSY J7601
OR
REAR REGULATOR ASSY J7601
Q7508
Q7510
Q7509
IC7501
Q7501
Q7502
Q7513
Q7514
Q7503
Q7504
Q7716
Q7511
Q7512
Q7507
Q7517
Q7505
Q7505
Q7515
Q7603
Q7506
Q7601

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

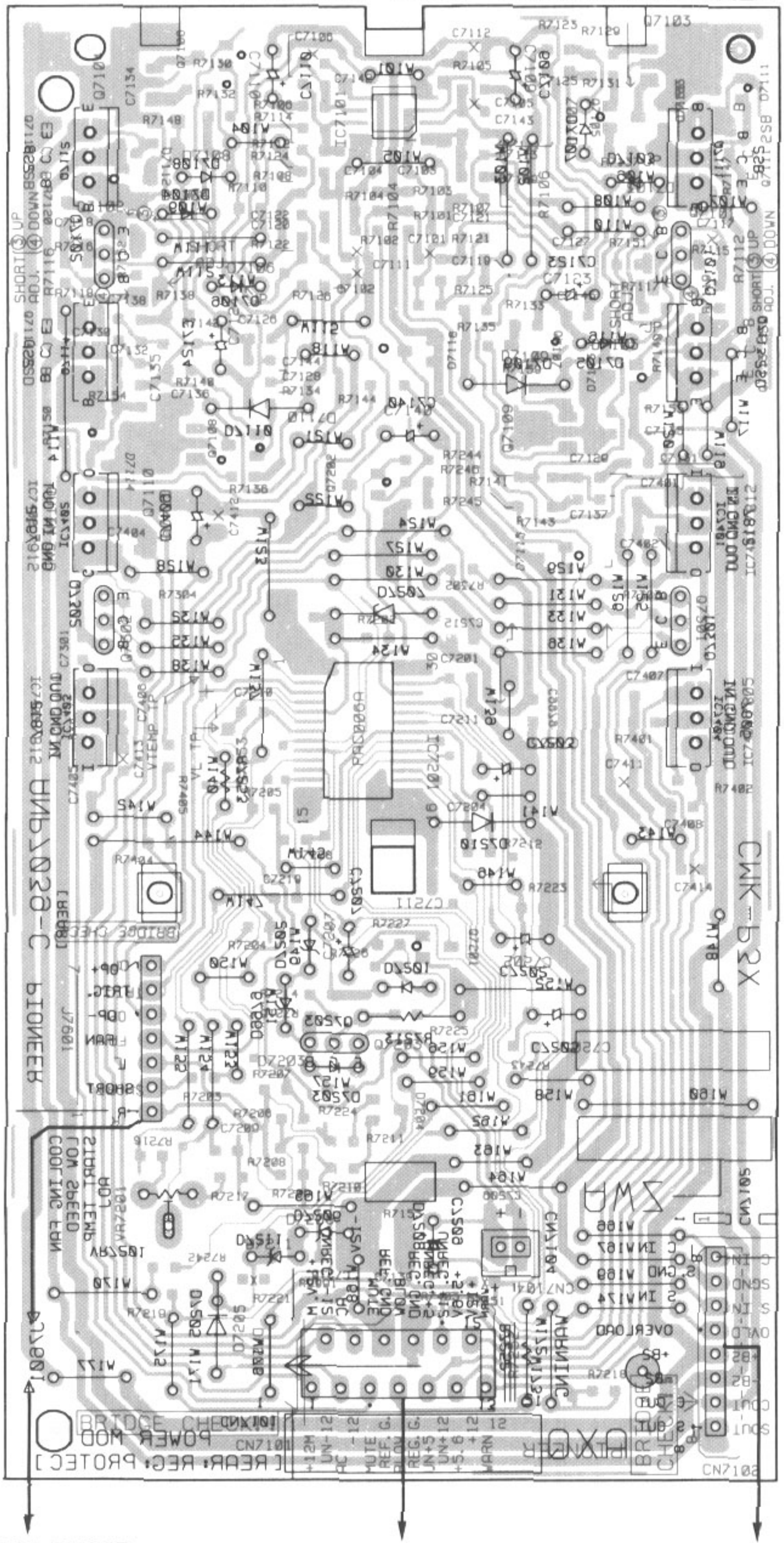

FRONT 50W ASSY
MAIN ASSY
J1003
REGULATOR ASSY J7601
OR
REAR REGULATOR ASSY J7601

- This diagram is viewed from the foil side.

PCB - 8

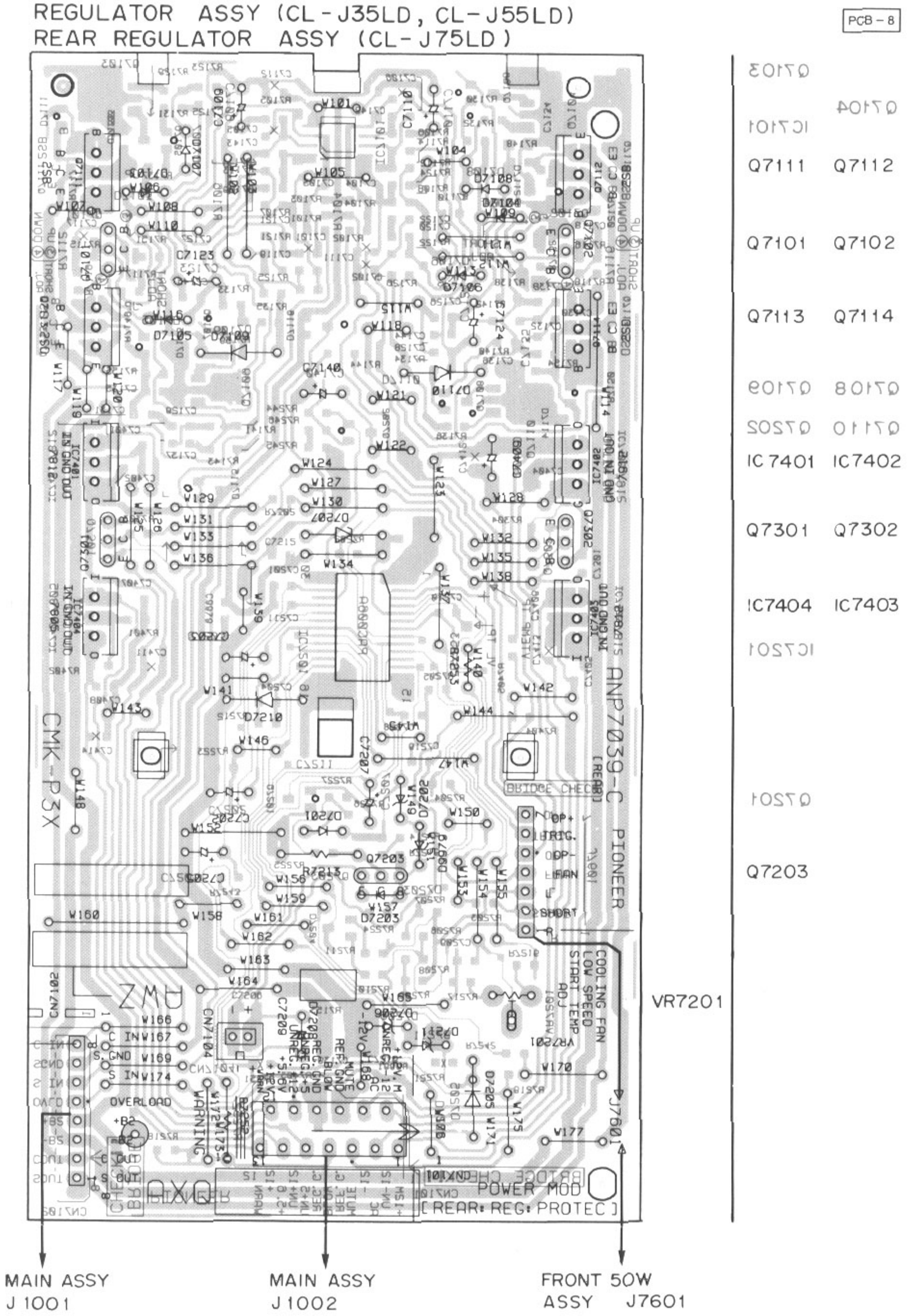
REGULATOR ASSY (CL-J35LD, CL-J55LD)
REAR REGULATOR ASSY (CL-J75LD)

Q7103
Q7104
IC7101
Q7111 Q7112
Q7101 Q7102
Q7113 Q7114
Q7108 Q7109
Q7110 Q7202
IC7401 IC7402
Q7301 Q7302
IC7404 IC7403
IC7201
Q7201
Q7203
VR7201


ANP-7029-C
PIONEER
CWK-P2X
J7601
CN7101
CN7102
CN7104
BRIDGE CHECK
POWER MOD
[REAR REG PROTEC]
COOLING FAN LOW SPEED START TEMP ADJ
VR7201
SHORT ③ UP ADJ. ④ DOWN
FRONT 50W ASSY J7601
MAIN ASSY J1002
MAIN ASSY J1001

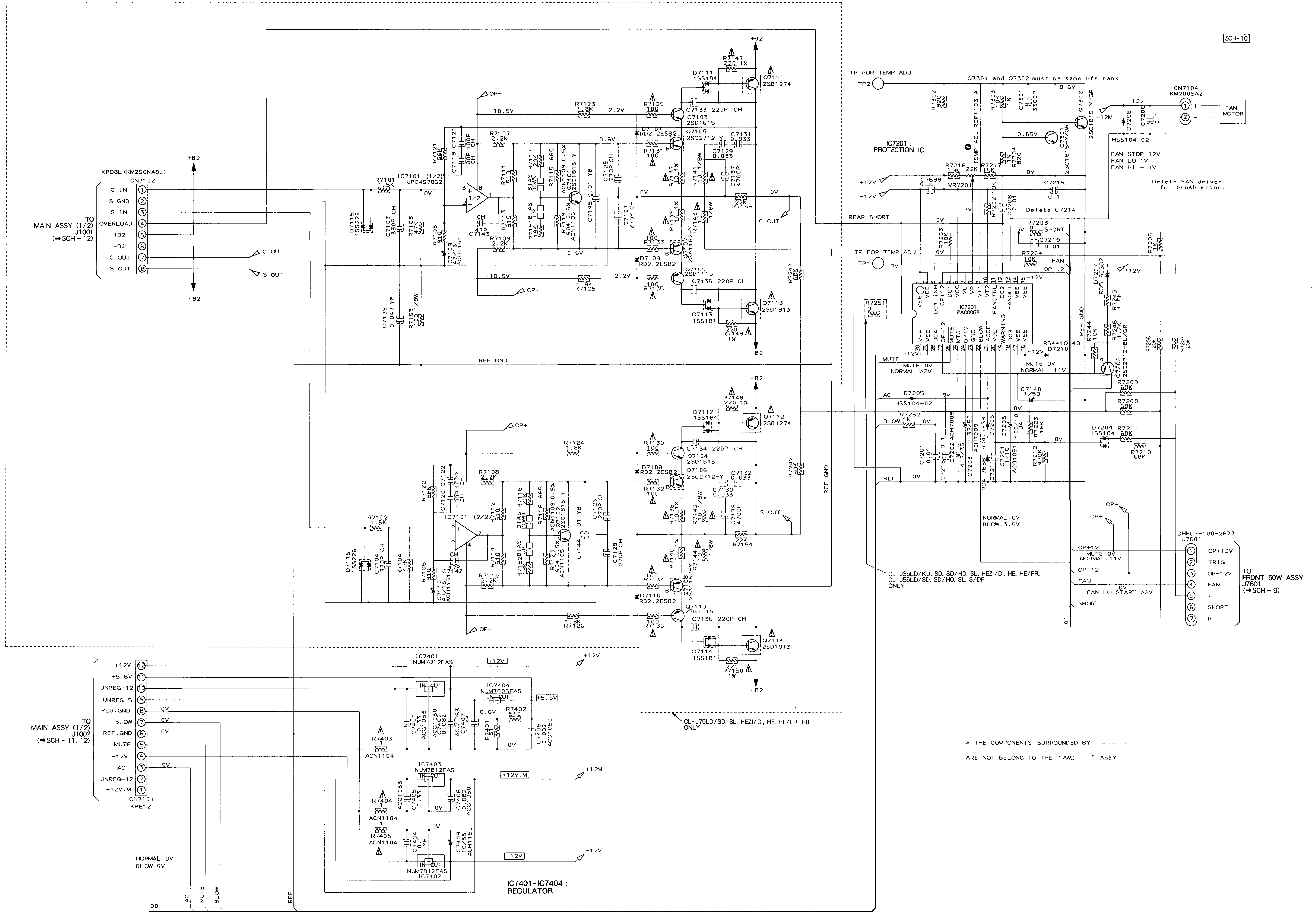
• This diagram is viewed from the foil side.

4.10 REGULATOR AND REAR REGULATOR ASSEMBLIES


REGULATOR ASSY (CL-J35LD, CL-J55LD)
REAR REGULATOR ASSY (CL-J75LD)
PCB-8
Q7103
Q7104
IC7101
Q7111
Q7112
Q7101
Q7102
Q7113
Q7114
Q7109
Q7108
Q7202
Q7110
IC7401
IC7402
Q7301
Q7302
IC7404
IC7403
IC7201
Q7201
Q7203
VR7201
ANP7039-C
PIONEER
CMK-P3X
BRIDGE CHECK
COOLING FAN LOW SPEED START TEMP ADJ
OP+
TRIG.
OOP-
FAN
SHORT
POWER MOD
[REAR: REG: PROTEC]
CN7102
CN7104
CN7101
J7601
C IN
S.GND
S IN
OVERLOAD
WARNING
+B2
S OUT
MAIN ASSY
J1001
MAIN ASSY
J1002
FRONT 50W
ASSY J7601

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

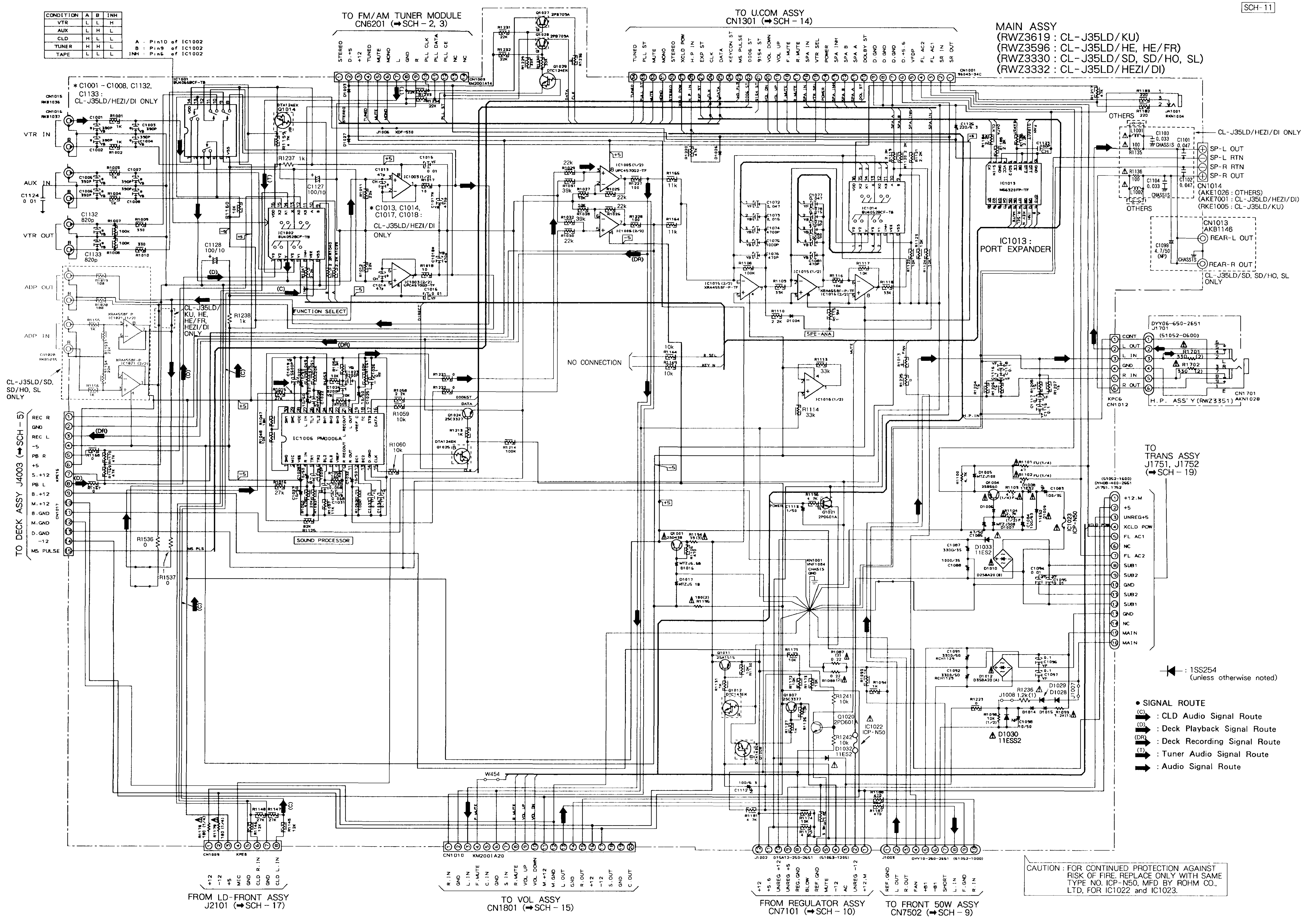
REGULATOR ASSY
(AWZ7560 : CL-J35LD/KU, SD, SD/HO, SL, HEZI/DI, HE, HE/FR, CL-J55LD/SD, SD/HO, SL, S/DF)
REAR REGULATOR ASSY
(AWZ7559 : CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB)


SCH-10
KPD8L (KM250NA8L)
CN7102
C IN
S.GND
S IN
OVERLOAD
+B2
-B2
C OUT
S OUT
TO MAIN ASSY (1/2) J1001 (➡SCH - 12)
IC7101 (1/2) UPC4570G2
IC7101 (2/2)
Q7111 2SB1274
Q7103 2SD1615
Q7105 2SC2712-Y
Q7107 2SA1162-Y
Q7109 2SB1115
Q7113 2SD1913
Q7112 2SB1274
Q7104 2SD1615
Q7106 2SC2712-Y
Q7108 2SA1162-Y
Q7110 2SB1115
Q7114 2SD1913
Q7101 2SC1815-Y
Q7102 2SC1815-Y
D7111 1SS184
D7113 1SS181
D7112 1SS184
D7114 1SS181
D7115 1SS226
D7116 1SS226
D7107 RD2.2ESB2
D7109 RD2.2ESB2
D7108 RD2.2ESB2
D7110 RD2.2ESB2
OP+
OP-
REF GND
C OUT
S OUT
10.5V
-10.5V
2.2V
-2.2V
0.6V
-0.6V
0V
TP FOR TEMP ADJ
TP2
TP1
Q7301 and Q7302 must be same Hfe rank.
IC7201 : PROTECTION IC
IC7201 PAC006B
VR7201
TEMP ADJ RCP1103-A
Q7301 2SC1815-Y/GR
Q7302 2SC1815-V/GR
Q7202 2SC2712-BL/GR
D7208 HSS104-02
D7205 HSS104-02
D7204 1SS184
D7207 RD5.6ESB2
D7210 RB441Q-40
CN7104 KM200SA2
FAN MOTOR
FAN STOP:12V
FAN LO:1V
FAN HI:-11V
Delete FAN driver for brush motor.
Delete C7214
REAR SHORT
SHORT
FAN
OP+12
MUTE
MUTE:0V NORMAL:>2V
MUTE:0V NORMAL:-11V
AC
BLOW
REF
NORMAL: 0V BLOW: 3.5V
CL-J35LD/KU, SD, SD/HO, SL, HEZI/DI, HE, HE/FR, CL-J55LD/SD, SD/HO, SL, S/DF ONLY
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB ONLY
DHH07-100-2877 J7601
OP+12V
TRIG
OP-12V
FAN
L
SHORT
R
FAN LO START: >2V
TO FRONT 50W ASSY J7601 (➡SCH - 9)
+12V
+5.6V
UNREG+12
UNREG+5
REG.GND
BLOW
REF.GND
MUTE
-12V
AC
UNREG-12
+12V.M
CN7101 KPE12
TO MAIN ASSY (1/2) J1002 (➡SCH - 11, 12)
IC7401 NJM7812FAS
IC7404 NJM7805FAS
IC7403 NJM7812FAS
IC7402 NJM7912FAS
IN OUT
+12V
+5.6V
+12V.M
-12V
+12M
NORMAL 0V BLOW 5V
IC7401-IC7404 : REGULATOR

* THE COMPONENTS SURROUNDED BY ------- ARE NOT BELONG TO THE "AWZ " ASSY.

4.11 MAIN AND H.P. ASSEMBLIES

- For CL-J35LD only



CONDITION	A	B	INH
VTR	L	L	H
AUX	L	H	L
CLD	H	L	L
TUNER	H	H	L
TAPE	L	L	L

A : Pin10 of IC1002
B : Pin9 of IC1002
INH : Pin6 of IC1002

A
B
C
D
E
F
SCH-11
MAIN ASSY
(RWZ3619 : CL-J35LD/KU)
(RWZ3596 : CL-J35LD/HE, HE/FR)
(RWZ3330 : CL-J35LD/SD, SD/HO, SL)
(RWZ3332 : CL-J35LD/HEZI/DI)
TO FM/AM TUNER MODULE
CN6201 (➡SCH-2, 3)
TO U.COM ASSY
CN1301 (➡SCH-14)
*C1001 - C1008, C1132, C1133 : CL-J35LD/HEZI/DI ONLY
VTR IN
AUX IN
VTR OUT
ADP OUT
ADP IN
CL-J35LD/SD, SD/HO, SL ONLY
CL-J35LD/KU, HE, HE/FR, HEZI/DI ONLY
IC1001 BU4066BCF-TB
IC1002 BU4052BCF-TB
FUNCTION SELECT
*C1013, C1014, C1017, C1018 : CL-J35LD/HEZI/DI ONLY
IC1003 UPC4570G2-TF
IC1005 UPC4570G2-TF
IC1006 PM0006A
SOUND PROCESSOR
NO CONNECTION
IC1013 M66320FP-TF
IC1013 : PORT EXPANDER
IC1014 BU4052BCF-TB
IC1015 XRA4558F-P-TF
SPE-ANA
IC1016
CL-J35LD/HEZI/DI ONLY
SP-L OUT
SP-L RTN
SP-R RTN
SP-R OUT
CN1014
(AKE1026 : OTHERS)
(AKE7001 : CL-J35LD/HEZI/DI)
(RKE1005 : CL-J35LD/KU)
OTHERS
CN1013 AKB1146
REAR-L OUT
REAR-R OUT
CL-J35LD/SD, SD/HO, SL ONLY
J1701
CONT
L OUT
L IN
GND
R IN
R OUT
KPC6 CN1012
H.P. ASS'Y (RWZ3351)
CN1701 AKN1028
TO TRANS ASSY J1751, J1752 (➡SCH-19)
+12.M
+5
UNREG+5
XCLD POW
FL AC1
NC
FL AC2
SUB1
SUB2
GND
MAIN
IC1023 ICP-N50
IC1022 ICP-N50
D1030 11ESS2
TO DECK ASSY J4003 (➡SCH-5)
REC R
GND
REC L
-5
PB R
+5
S.+12
PB L
B.+12
M.+12
B.GND
M.GND
D.GND
-12
MS PULSE
FROM LD-FRONT ASSY J2101 (➡SCH-17)
TO VOL ASSY CN1801 (➡SCH-15)
FROM REGULATOR ASSY CN7101 (➡SCH-10)
TO FRONT 50W ASSY CN7502 (➡SCH-9)
W454
KN1001 VNF1084 CHASSIS GND

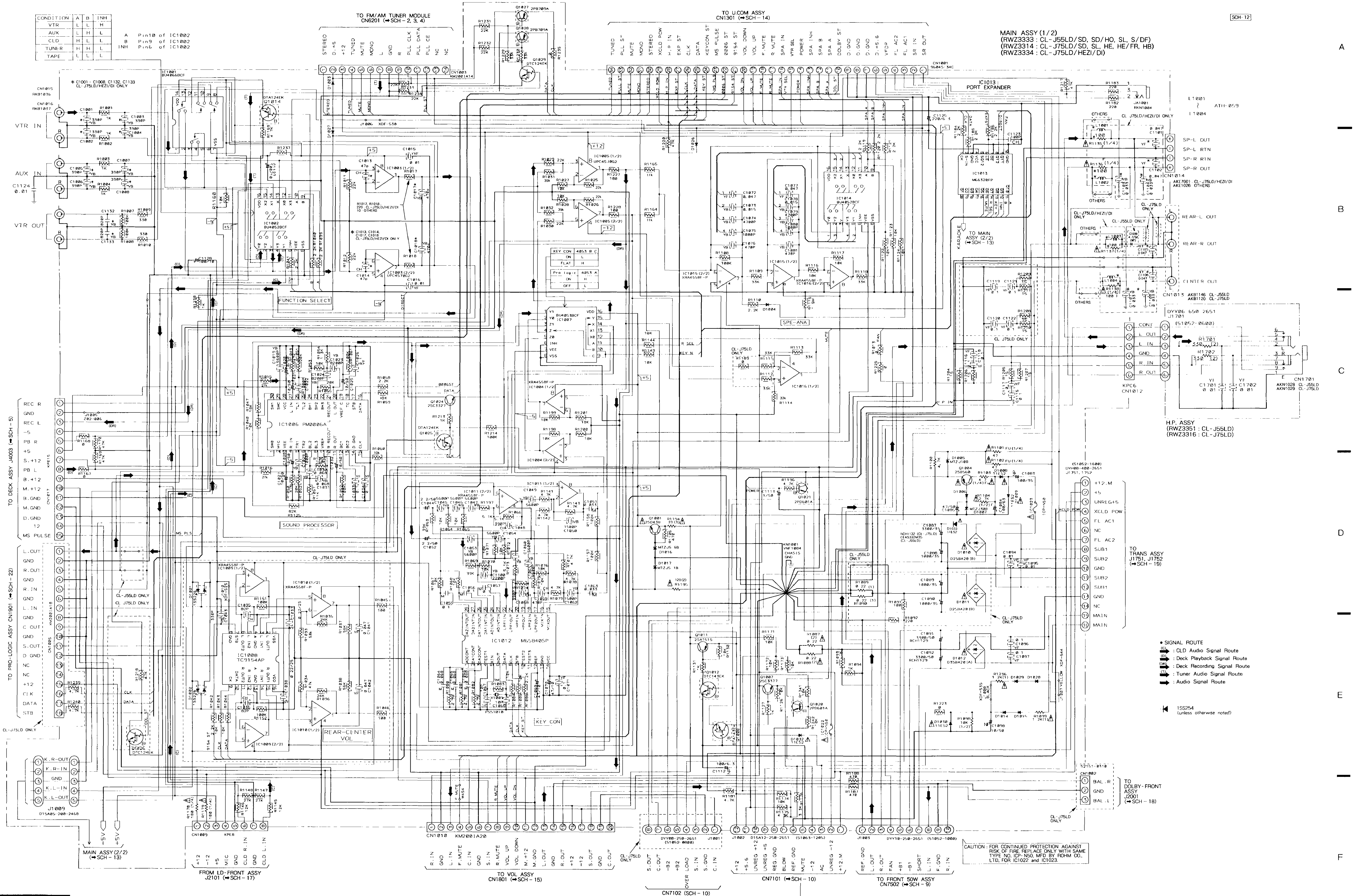
➔ : 1SS254 (unless otherwise noted)

- SIGNAL ROUTE
  - (C) ➡ : CLD Audio Signal Route
  - (D) ➡ : Deck Playback Signal Route
  - (DR) ➡ : Deck Recording Signal Route
  - (T) ➡ : Tuner Audio Signal Route
  - ➡ : Audio Signal Route

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N50, MFD BY ROHM CO., LTD, FOR IC1022 and IC1023.

4.12 MAIN ASSY (1/2) AND H.P. ASSY

- **For CL-J55LD and CL-J75LD only**


SCH-12
MAIN ASSY (1/2)
(RWZ3333 : CL-J55LD/SD, SD/HO, SL, S/DF)
(RWZ3314 : CL-J75LD/SD, SL, HE, HE/FR, HB)
(RWZ3334 : CL-J75LD/HEZI/DI)
A Pin10 of IC1002
B Pin9 of IC1002
INH Pin6 of IC1002
* C1001 - C1008, C1132, C1133 CL-J75LD/HEZI/DI ONLY
VTR IN
AUX IN
VTR OUT
TO FM/AM TUNER MODULE CN6201 (➡SCH - 2, 3, 4)
TO U.COM ASSY CN1301 (➡SCH - 14)
IC1013 : PORT EXPANDER
FUNCTION SELECT
SOUND PROCESSOR
IC1006 PM0006A
IC1012 M65840SP
IC1008 TC9154AP
KEY CON
REAR-CENTER VOL
SPE-ANA
SP-L OUT
SP-L RTN
SP-R RTN
SP-R OUT
REAR-L OUT
REAR-R OUT
CENTER OUT
TO MAIN ASSY (2/2) (➡SCH - 13)
H.P. ASSY
(RWZ3351 : CL-J55LD)
(RWZ3316 : CL-J75LD)
TO DECK ASSY J4003 (➡SCH - 5)
TO PRO-LOGIC ASSY CN1901 (➡SCH - 22)
TO TRANS ASSY J1751, J1752 (➡SCH - 19)
TO DOLBY-FRONT ASSY J2001 (➡SCH - 18)
MAIN ASSY (2/2) (➡SCH - 13)
FROM LD-FRONT ASSY J2101 (➡SCH - 17)
TO VOL ASSY CN1801 (➡SCH - 15)
CN7102 (SCH - 10)
CN7101 (➡SCH - 10)
REGULATOR ASSY (CL-J55LD)
REAR REGULATOR ASSY (CL-J75LD)
TO FRONT 50W ASSY CN7502 (➡SCH - 9)
CL-J75LD ONLY
CL-J55LD ONLY

CONDITION	A	B	INH
VTR	L	L	H
AUX	L	H	L
CLD	H	L	L
TUNER	H	H	L
TAPE	L	L	L

- SIGNAL ROUTE

(C) ➡ : CLD Audio Signal Route
(D) ➡ : Deck Playback Signal Route
(DR) ➡ : Deck Recording Signal Route
(T) ➡ : Tuner Audio Signal Route
➡ : Audio Signal Route

1SS254
(unless otherwise noted)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N50, MFD BY ROHM CO., LTD. FOR IC1022 and IC1023.

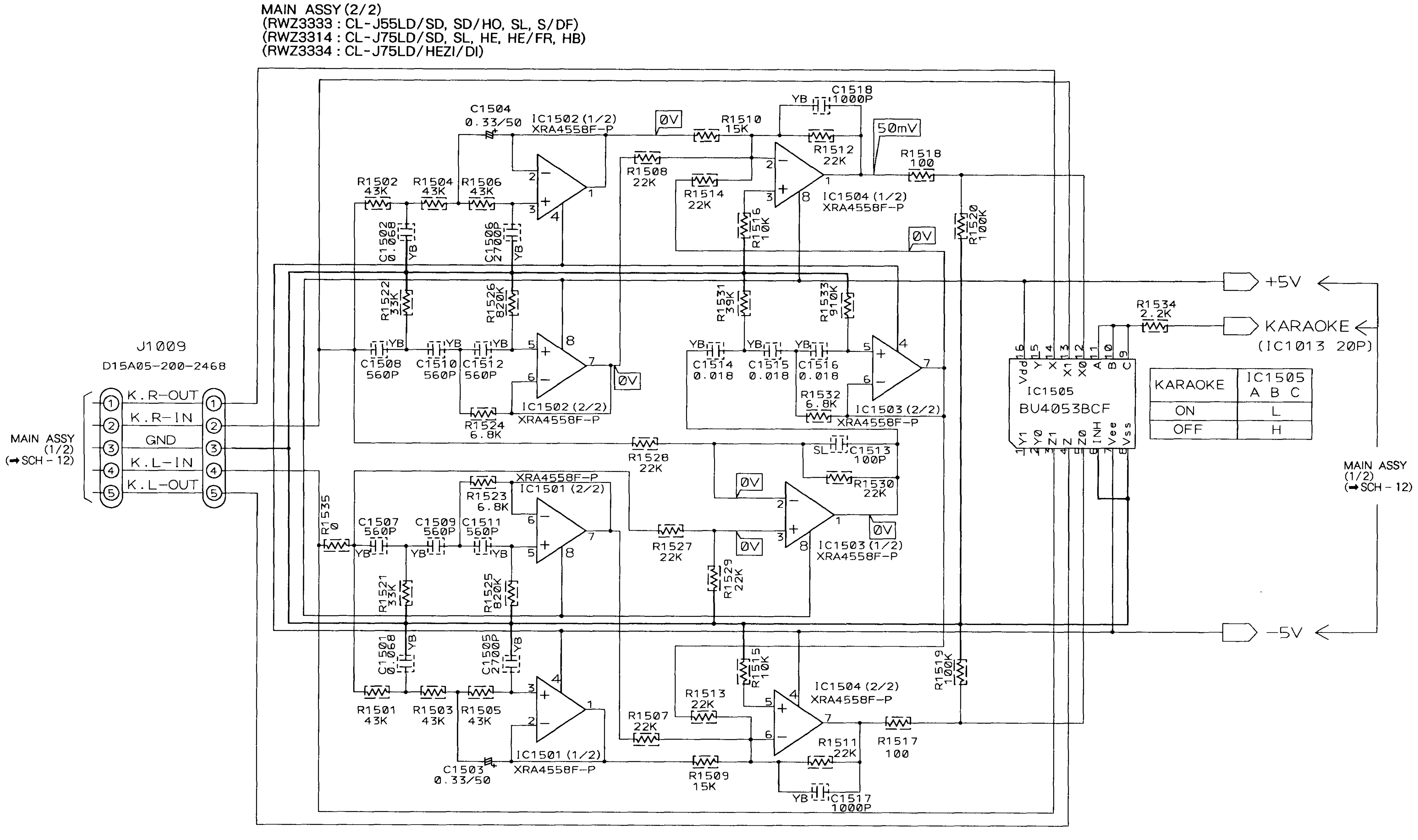
SCH-12 MAIN ASSY (1/2) (for CL-J55LD, CL-J75LD), H.P. ASSY

MAIN ASSY (1/2) (for CL-J55LD, CL-J75LD), H.P. ASSY **SCH-12**

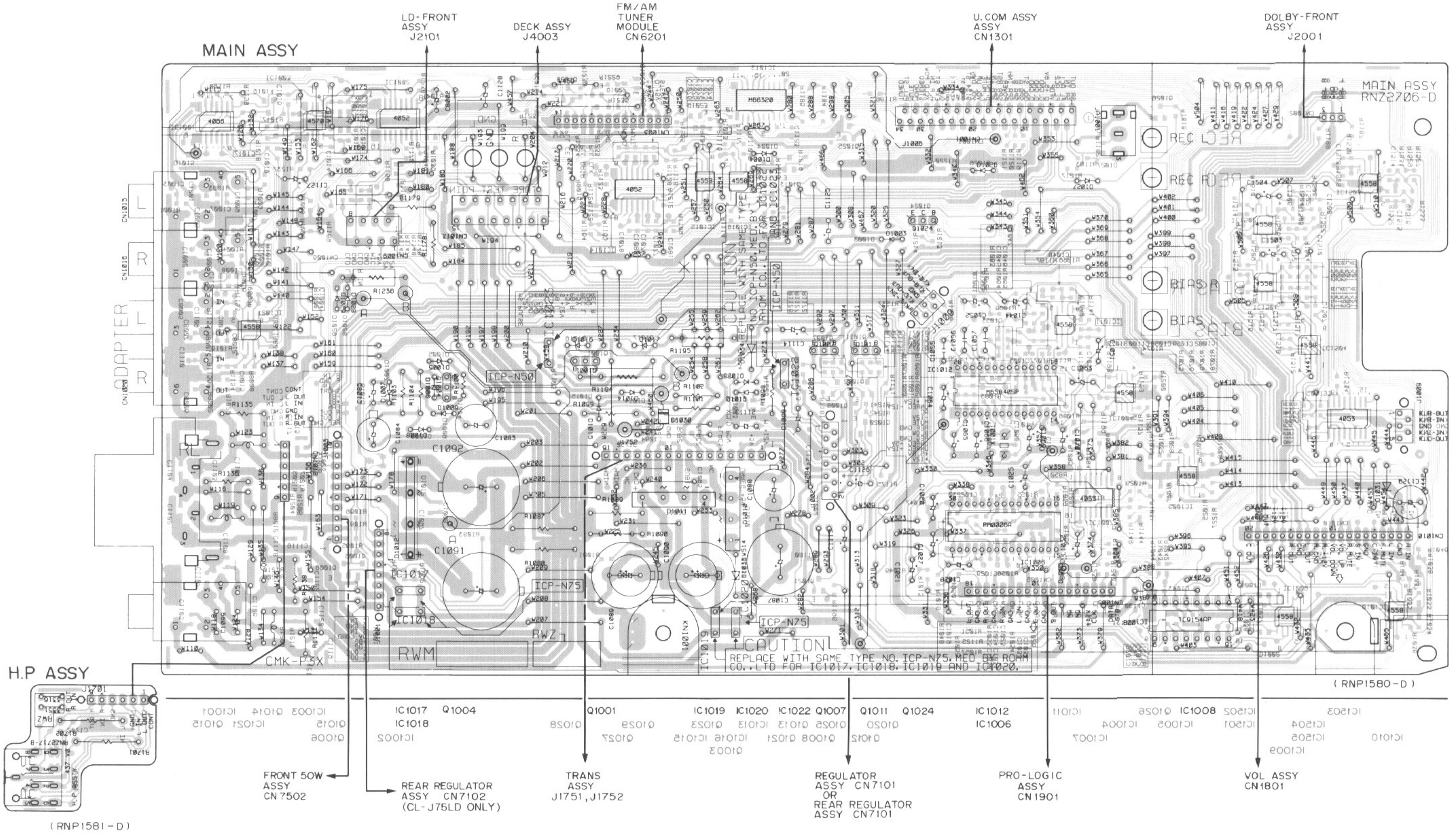
4.13 MAIN ASSY (2/2)

- **CL-J55LD and CL-J75LD only**

SCH-13

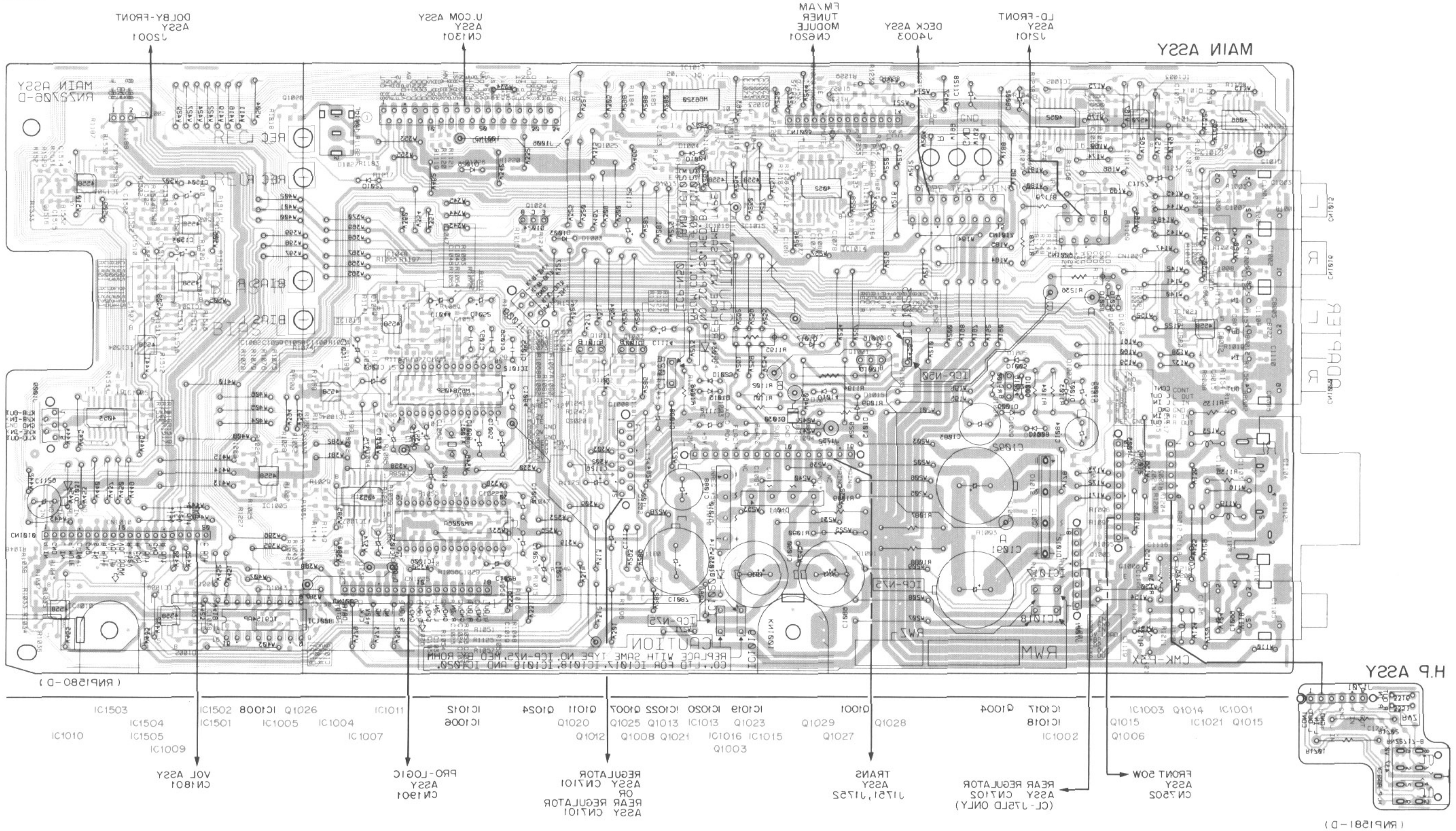

MAIN ASSY (2/2)
(RWZ3333 : CL-J55LD/SD, SD/HO, SL, S/DF)
(RWZ3314 : CL-J75LD/SD, SL, HE, HE/FR, HB)
(RWZ3334 : CL-J75LD/HEZI/DI)
J1009
D15A05-200-2468
① K.R-OUT
② K.R-IN
③ GND
④ K.L-IN
⑤ K.L-OUT
MAIN ASSY (1/2) (➡SCH-12)
C1504 0.33/50
IC1502 (1/2) XRA4558F-P
IC1502 (2/2) XRA4558F-P
IC1501 (1/2) XRA4558F-P
IC1501 (2/2) XRA4558F-P
IC1503 (1/2) XRA4558F-P
IC1503 (2/2) XRA4558F-P
IC1504 (1/2) XRA4558F-P
IC1504 (2/2) XRA4558F-P
R1502 43K
R1504 43K
R1506 43K
R1501 43K
R1503 43K
R1505 43K
C1502 0.068
C1506 2700P
C1501 0.068
C1505 2700P
R1522 33K
R1526 820K
R1521 33K
R1525 820K
C1508 560P
C1510 560P
C1512 560P
C1507 560P
C1509 560P
C1511 560P
R1524 6.8K
R1523 6.8K
R1535 0
R1528 22K
R1527 22K
R1529 22K
R1530 22K
C1513 100P
R1508 22K
R1507 22K
R1510 15K
R1509 15K
R1514 22K
R1513 22K
R1516 10K
R1515 10K
R1512 22K
R1511 22K
C1518 1000P
C1517 1000P
C1503 0.33/50
R1518 100
R1517 100
R1520 100K
R1519 100K
R1531 39K
R1533 910K
C1514 0.018
C1515 0.018
C1516 0.018
R1532 6.8K
0V
50mV
YB
SL
IC1505
BU4053BCF
Vdd Y X X1 X0 A B C
Y1 Y0 Z1 Z Z0 INH Vee Vss
R1534 2.2K
+5V
KARAOKE
(IC1013 20P)
-5V
KARAOKE | IC1505 A B C
ON | L
OFF | H
MAIN ASSY (1/2) (➡SCH-12)

ONE TOUCH KARAOKE CIRCUIT

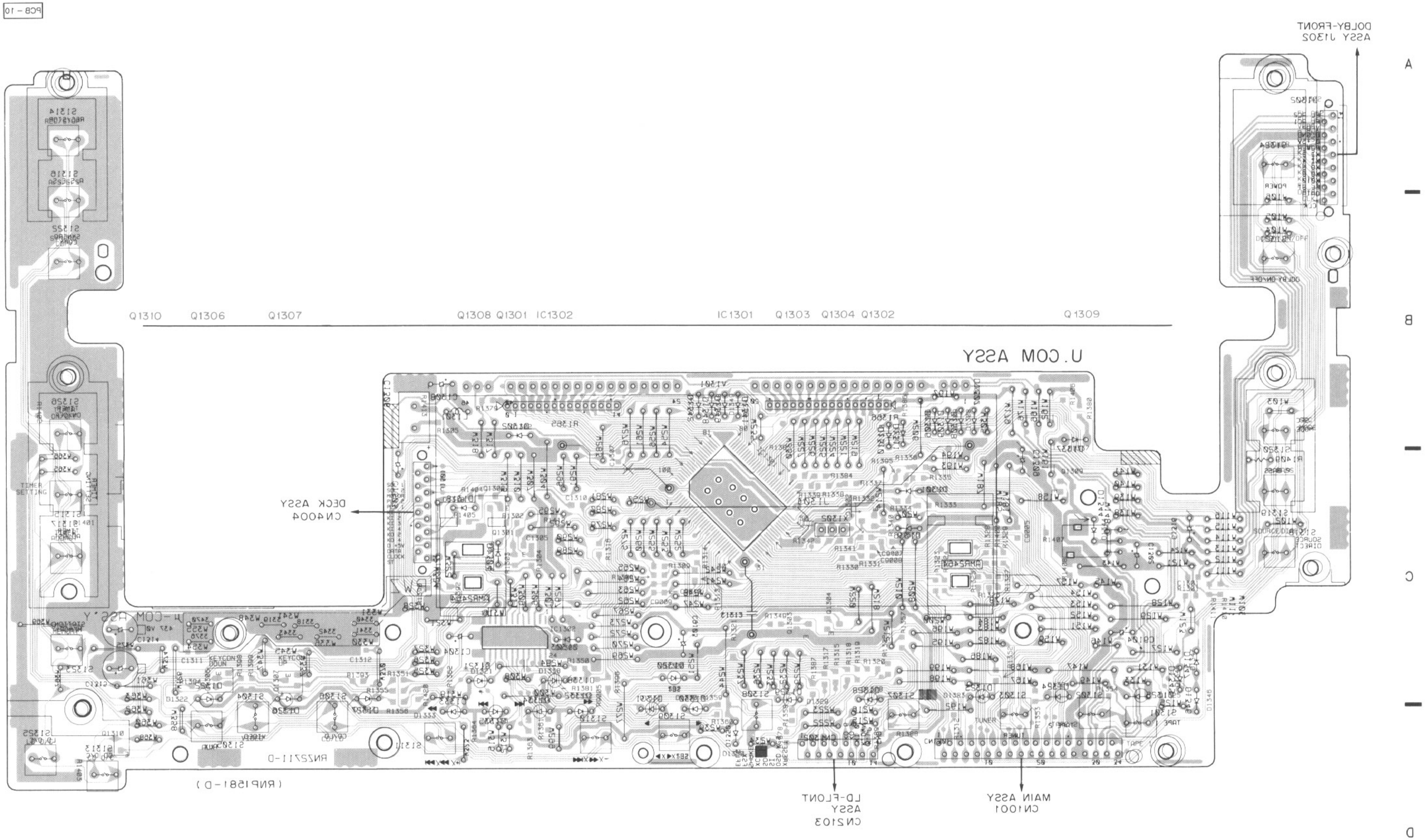

MAIN ASSY
LD-FRONT ASSY J2101
DECK ASSY J4003
FM/AM TUNER MODULE CN6201
U.COM ASSY CN1301
DOLBY-FRONT ASSY J2001
MAIN ASSY RNZ2706-D
ADAPTER
CN1015
CN1016
CN1020
L
R
REC L
REC R
BIAS R
BIAS L
TAPE TEST POINT
CAUTION REPLACE WITH SAME TYPE NO. ICP-N50, MFD. BY ROHM CO., LTD FOR IC1021 AND IC1022.
ICP-N50
ICP-N75
CAUTION
REPLACE WITH SAME TYPE NO. ICP-N75, MFD. BY ROHM CO., LTD FOR IC1017, IC1018, IC1019 AND IC1020.
C1092
C1091
RWM
RWZ
CMK-P3X
M66320
4052
4558
M65840SP
PM0006A
LC7815AP
4053
(RNP1580-D)
H.P ASSY
J1701
(RNP1581-D)
IC1017 Q1004
IC1018
Q1001
IC1019 IC1020 IC1022 Q1007 Q1011 Q1024
IC1012
IC1006
IC1008
FRONT 50W ASSY CN7502
REAR REGULATOR ASSY CN7102 (CL-J75LD ONLY)
TRANS ASSY J1751, J1752
REGULATOR ASSY CN7101 OR REAR REGULATOR ASSY CN7101
PRO-LOGIC ASSY CN1901
VOL ASSY CN1801

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

PCB - 9

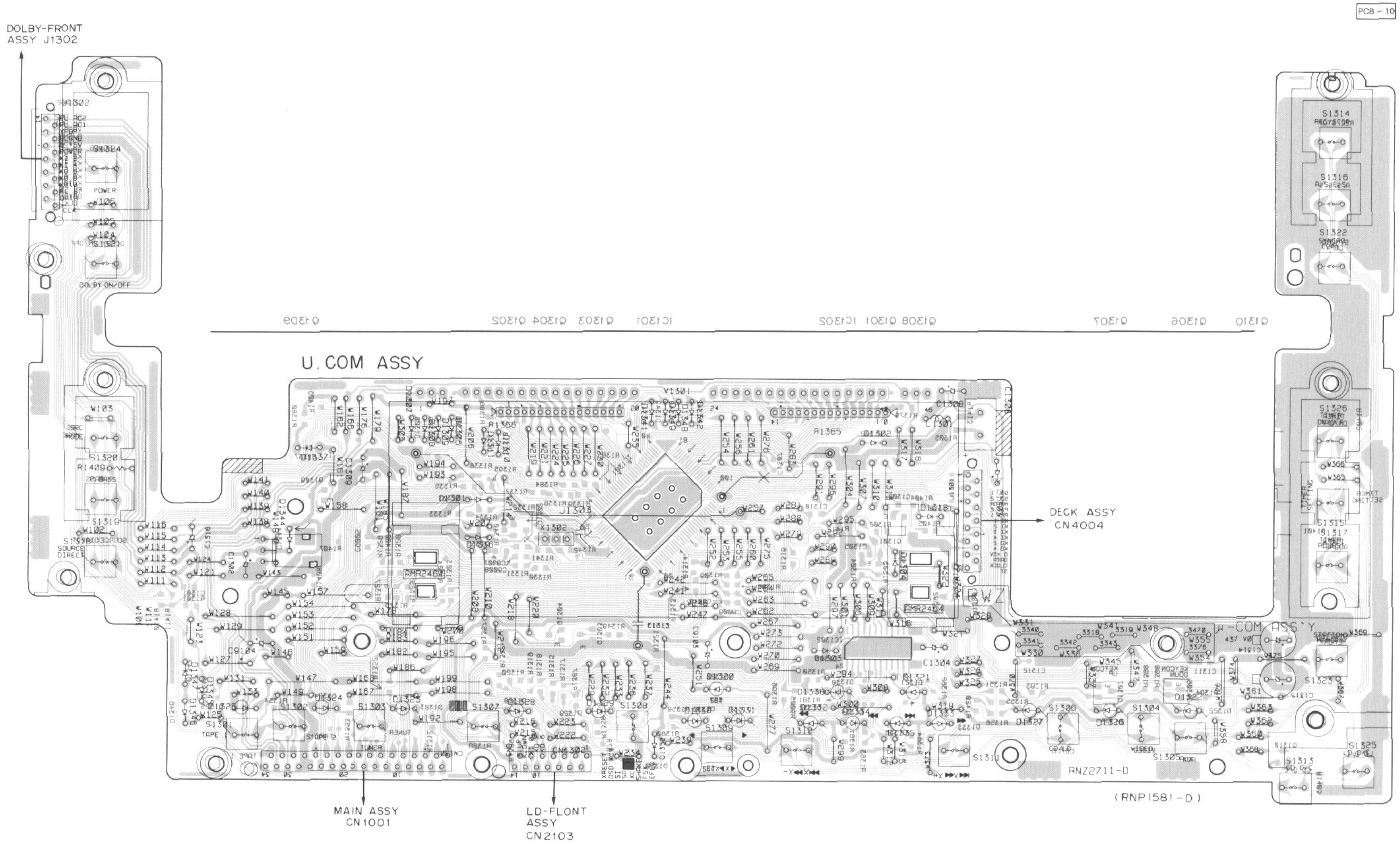

DOLBY-FRONT ASSY J2001
U.COM ASSY CN1301
FM/AM TUNER MODULE CN6201
DECK ASSY J4003
LD-FRONT ASSY J2101
MAIN ASSY
MAIN ASSY RNZ2706-D
CAUTION
REPLACE WITH SAME TYPE NO. ICP-N25,MFD. BY ROHM CO.,LTD FOR IC1017, IC1018, IC1019 AND IC1020.
(RNP1580-D)
H.P ASSY
(RNP1581-D)
IC1503 IC1504 IC1505 IC1010 IC1009
IC1502 IC1501 IC1008 IC1005 Q1026 IC1004
IC1011 IC1007
IC1012 IC1006
Q1024 Q1011 Q1020 Q1012
Q1007 IC1022 Q1025 Q1013 Q1008 Q1021
IC1020 IC1013 IC1019 Q1023 IC1016 IC1015 Q1003
Q1001 Q1029 Q1028 Q1027
Q1004 IC1017 IC1018 IC1002
IC1003 Q1014 IC1001 Q1015 IC1021 Q1015 Q1006
VOL ASSY CN1801
PRO-LOGIC ASSY CN1901
REGULATOR ASSY CN7101 OR REAR REGULATOR ASSY CN7101
TRANS ASSY J1751,J1752
REAR REGULATOR ASSY CN7102 (CL-J75LD ONLY)
FRONT 50W ASSY CN7502

● This diagram is viewed from the foil side.

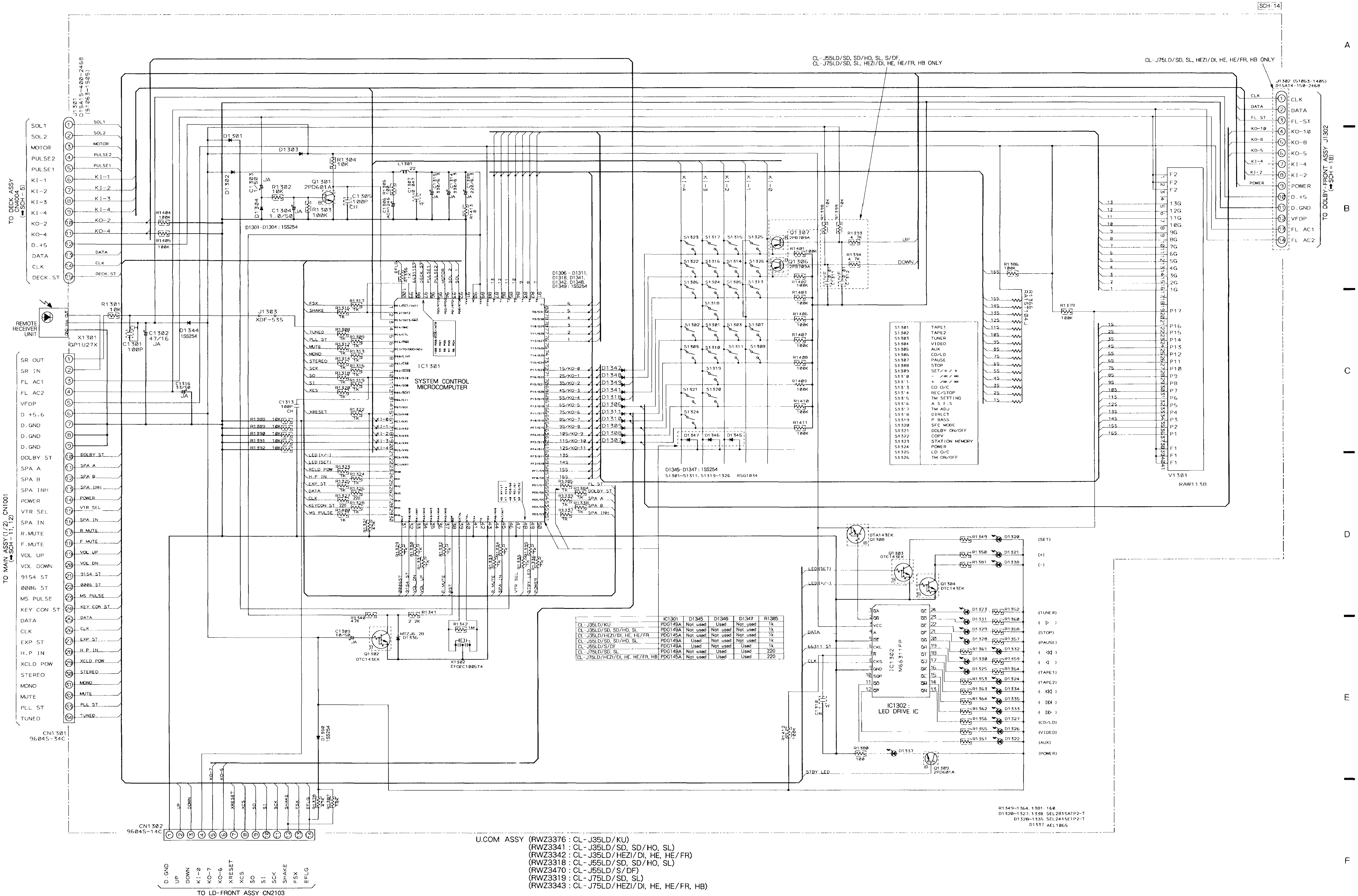

PCB – 10
DOLBY-FRONT
ASSY J1302
Q1310
Q1306
Q1307
Q1308
Q1301
IC1302
IC1301
Q1303
Q1304
Q1302
Q1309
U.COM ASSY
DECK ASSY
CN4004
RNZ2711-D
(RNP1581-D)
LD-FLONT
ASSY
CN2103
MAIN ASSY
CN1001

● This diagram is viewed from the foil side.

4.14 U.COM ASSY


PCB - 10
DOLBY-FRONT ASSY J1302
U. COM ASSY
DECK ASSY CN4004
MAIN ASSY CN1001
LD-FLONT ASSY CN2103
RNZ2711-D
(RNP1581-D)
POWER
DOLBY ON/OFF
SOURCE DIRECT
TAPE
TUNER
μ-COM ASS'Y
IC1301
IC1302

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.


SCH-14
TO DECK ASSY CN4004 (➡SCH-5)
J1301 D15A15-400-246B (51063-1505)
SOL1
SOL2
MOTOR
PULSE2
PULSE1
KI-1
KI-2
KI-3
KI-4
KO-2
KO-4
D.+5
DATA
CLK
DECK.ST
REMOTE RECEIVER UNIT
X1301 GP1U27X
J1303 XDF-535
IC1301 SYSTEM CONTROL MICROCOMPUTER
D1301-D1304 : 1SS254
D1306-D1311, D1318, D1341, D1342, D1348, D1349 : 1SS254
D1345-D1347 : 1SS254
S1301-S1311, S1313-1326 ASG1034
CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB ONLY
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB ONLY
J1302 (51063-1405) D15A14-150-246B
CLK
DATA
FL ST
KO-10
KO-8
KO-5
KI-4
KI-2
POWER
D.+5
D.GND
VFDP
FL AC1
FL AC2
TO DOLBY-FRONT ASSY J1302 (➡SCH-18)
V1301 RAW1138
TO MAIN ASSY (1/2) CN1001 (➡SCH-11, 12)
SR OUT
SR IN
FL AC1
FL AC2
VFDP
D +5.6
D.GND
D.GND
D.GND
DOLBY ST
SPA A
SPA B
SPA INH
POWER
VTR SEL
SPA IN
R.MUTE
F.MUTE
VOL UP
VOL DOWN
9154 ST
0006 ST
MS PULSE
KEY CON ST
DATA
CLK
EXP ST
H.P IN
XCLD POW
STEREO
MONO
MUTE
PLL ST
TUNED
CN1301 9604S-34C
CN1302 9604S-14C
D.GND
UP
DOWN
KI-0
KO-7
KO-6
XRESET
XCS
SO
SI
SCK
SHAKE
FSX
EFLG
TO LD-FRONT ASSY CN2103 (➡SCH-17)
IC1302 M66311FP LED DRIVE IC
Q1302 DTC143EK
Q1303 DTC143EK
Q1304 DTC143EK
Q1308 DTA143EK
Q1309 2PD601A
Q1306 2PB709A
Q1307 2PB709A
Q1301 2PD601A
X1302 EFOEC1005T4
(SET)
(+)
(-)
(TUNER)
(▷)
(STOP)
(PAUSE)
(◁◁)
(◁)
(TAPE1)
(TAPE2)
(⏮)
(⏭)
(▷▷)
(CD/LD)
(VIDEO)
(AUX)
(POWER)
STBY LED
LED(SET)
LED(+/-)
UP
DOWN

	IC1301	D1345	D1346	D1347	R1385
CL-J35LD/KU	PDG149A	Not used	Used	Not used	1k
CL-J35LD/SD, SD/HO, SL	PDG149A	Not used	Not used	Not used	1k
CL-J35LD/HEZI/DI, HE, HE/FR	PDG145A	Not used	Not used	Not used	1k
CL-J55LD/SD, SD/HO, SL	PDG149A	Used	Not used	Not used	1k
CL-J55LD/S/DF	PDG149A	Used	Not used	Used	1k
CL-J75LD/SD, SL	PDG149A	Not used	Used	Used	220
CL-J75LD/HEZI/DI, HE, HE/FR, HB	PDG145A	Not used	Used	Used	220

S1301	TAPE1
S1302	TAPE2
S1303	TUNER
S1304	VIDEO
S1305	AUX
S1306	CD/LD
S1307	PAUSE
S1308	STOP
S1309	SET/◁/▷
S1310	− /◁◁/⏮
S1311	+ /▷▷/⏭
S1313	CD O/C
S1314	REC/STOP
S1315	TM SETTING
S1316	A S F.S
S1317	TM ADJ
S1318	DIRECT
S1319	P BASS
S1320	SFC MODE
S1321	DOLBY ON/OFF
S1322	COPY
S1323	STATION MEMORY
S1324	POWER
S1325	LD O/C
S1326	TM ON/OFF

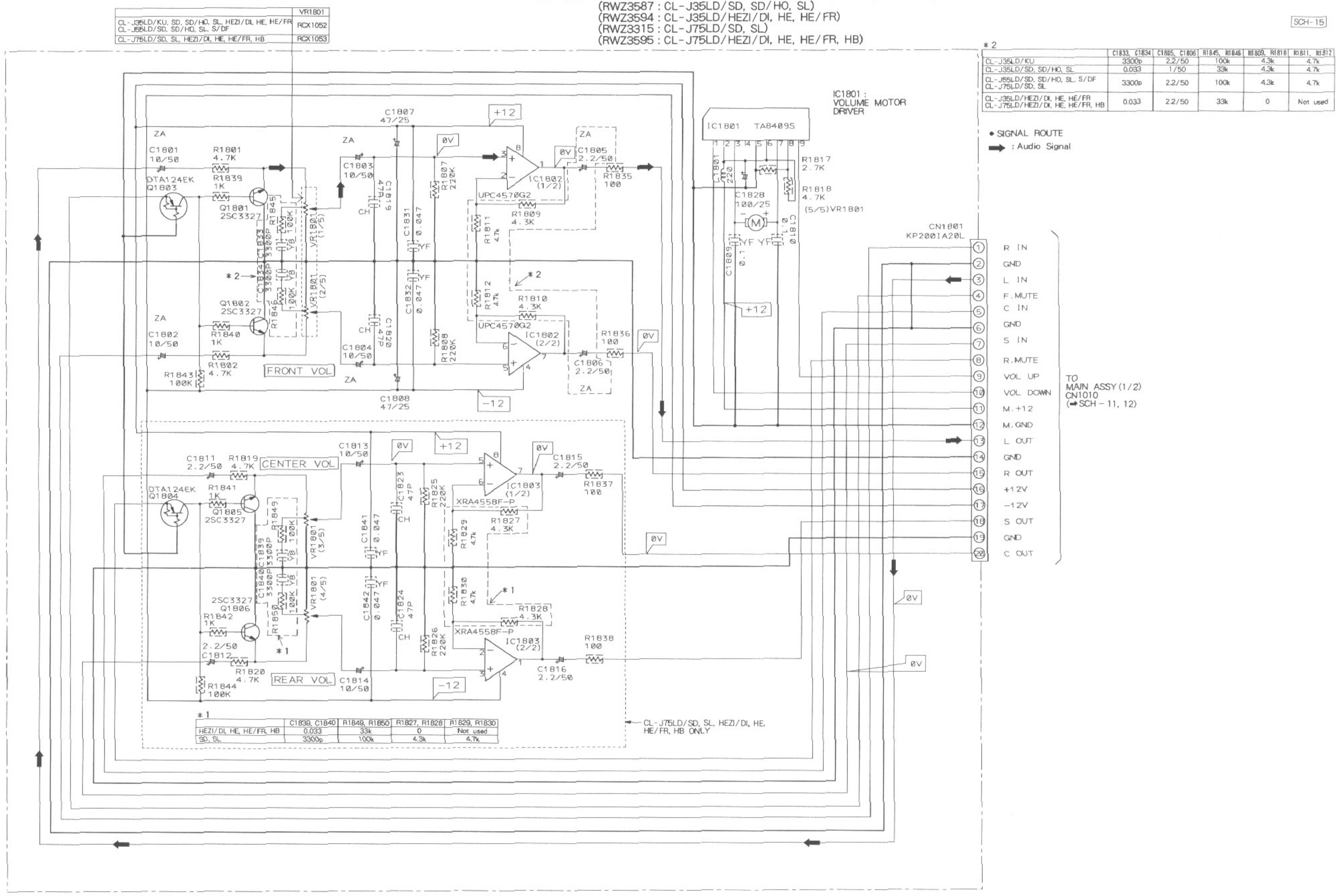
R1349~1364, 1381 : 160
D1320~1327, 1338 SEL2815ATP2-T
D1328~1335 SEL2415ETP2-T
D1337 AEL1065

U.COM ASSY (RWZ3376 : CL-J35LD/KU)
(RWZ3341 : CL-J35LD/SD, SD/HO, SL)
(RWZ3342 : CL-J35LD/HEZI/DI, HE, HE/FR)
(RWZ3318 : CL-J55LD/SD, SD/HO, SL)
(RWZ3470 : CL-J55LD/S/DF)
(RWZ3319 : CL-J75LD/SD, SL)
(RWZ3343 : CL-J75LD/HEZI/DI, HE, HE/FR, HB)

4.15 VOL ASSY

VOL ASSY (RWZ3593 : CL-J35LD/KU, CL-J55LD/SD, SD/HO, SL, S/DF)
(RWZ3587 : CL-J35LD/SD, SD/HO, SL)
(RWZ3594 : CL-J35LD/HEZI/DI, HE, HE/FR)
(RWZ3315 : CL-J75LD/SD, SL)
(RWZ3595 : CL-J75LD/HEZI/DI, HE, HE/FR, HB)

	VR1801
CL-J35LD/KU, SD, SD/HO, SL, HEZI/DI, HE, HE/FR CL-J55LD/SD, SD/HO, SL, S/DF	RCX1052
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB	RCX1053


SCH-15
IC1801 : VOLUME MOTOR DRIVER
IC1801 TA8409S
ZA
C1801 10/50
R1801 4.7K
R1839 1K
DTA124EK Q1803
Q1801 2SC3327
Q1802 2SC3327
C1802 10/50
R1840 1K
R1843 100K
R1802 4.7K
FRONT VOL
C1807 47/25
C1803 10/50
C1804 10/50
C1808 47/25
C1819 47P
C1820 47P
C1831 0.047
C1832 0.047
CH
YF
R1807 220K
R1808 220K
+12
-12
0V
UPC4570G2
IC1802 (1/2)
IC1802 (2/2)
R1809 4.3K
R1810 4.3K
R1811 4.7K
R1812 4.7K
C1805 2.2/50
C1806 2.2/50
R1835 100
R1836 100
R1817 2.7K
R1818 4.7K
C1828 100/25
C1829
C1810
(5/5)VR1801
VR1801 (1/5)
VR1801 (2/5)
VR1801 (3/5)
VR1801 (4/5)
*2
*1
M
CN1801 KP200IA20L
R IN
GND
L IN
F.MUTE
C IN
GND
S IN
R.MUTE
VOL UP
VOL DOWN
M.+12
M.GND
L OUT
GND
R OUT
+12V
-12V
S OUT
GND
C OUT
TO MAIN ASSY (1/2) CN1010 (➡SCH-11, 12)
C1811 2.2/50
R1819 4.7K
CENTER VOL
DTA124EK Q1804
R1841 1K
Q1805 2SC3327
Q1806 2SC3327
R1842 1K
C1812 2.2/50
R1820 4.7K
R1844 100K
REAR VOL
C1813 10/50
C1814 10/50
C1841 0.047
C1842 0.047
C1823 47P
C1824 47P
R1825 220K
R1826 220K
XRA4558F-P
IC1803 (1/2)
IC1803 (2/2)
R1827 4.3K
R1828 4.3K
R1829 4.7K
R1830 4.7K
C1815 2.2/50
C1816 2.2/50
R1837 100
R1838 100
C1839
C1840
R1849
R1850
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB ONLY

*2

	C1833, C1834	C1805, C1806	R1845, R1846	R1809, R1810	R1811, R1812
CL-J35LD/KU	3300p	2.2/50	100k	4.3k	4.7k
CL-J35LD/SD, SD/HO, SL	0.033	1/50	33k	4.3k	4.7k
CL-J55LD/SD, SD/HO, SL, S/DF CL-J75LD/SD, SL	3300p	2.2/50	100k	4.3k	4.7k
CL-J35LD/HEZI/DI, HE, HE/FR CL-J75LD/HEZI/DI, HE, HE/FR, HB	0.033	2.2/50	33k	0	Not used

- SIGNAL ROUTE

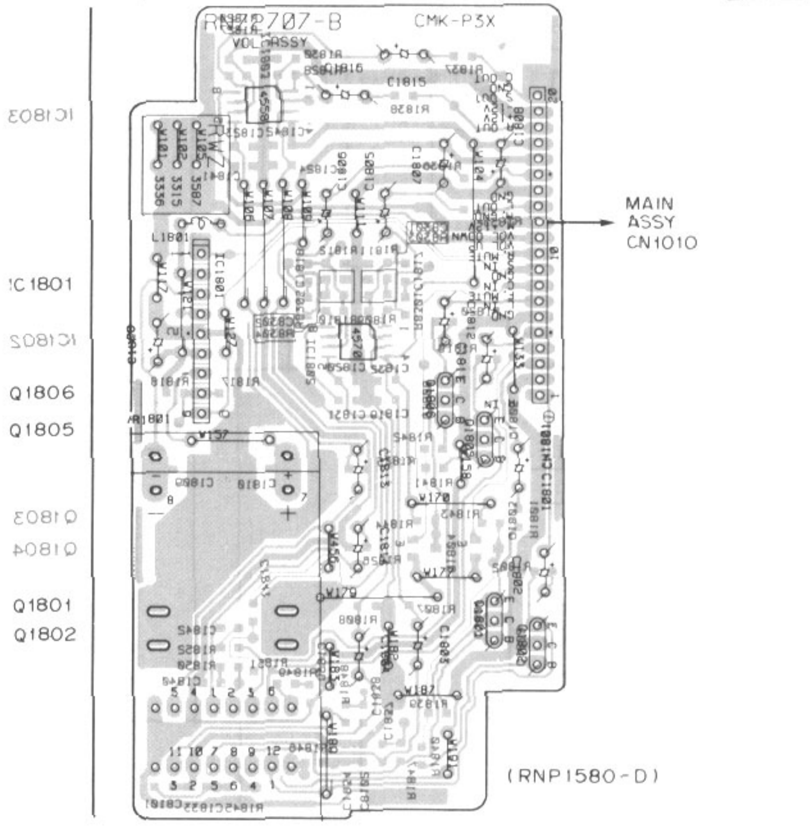
➡ : Audio Signal

*1

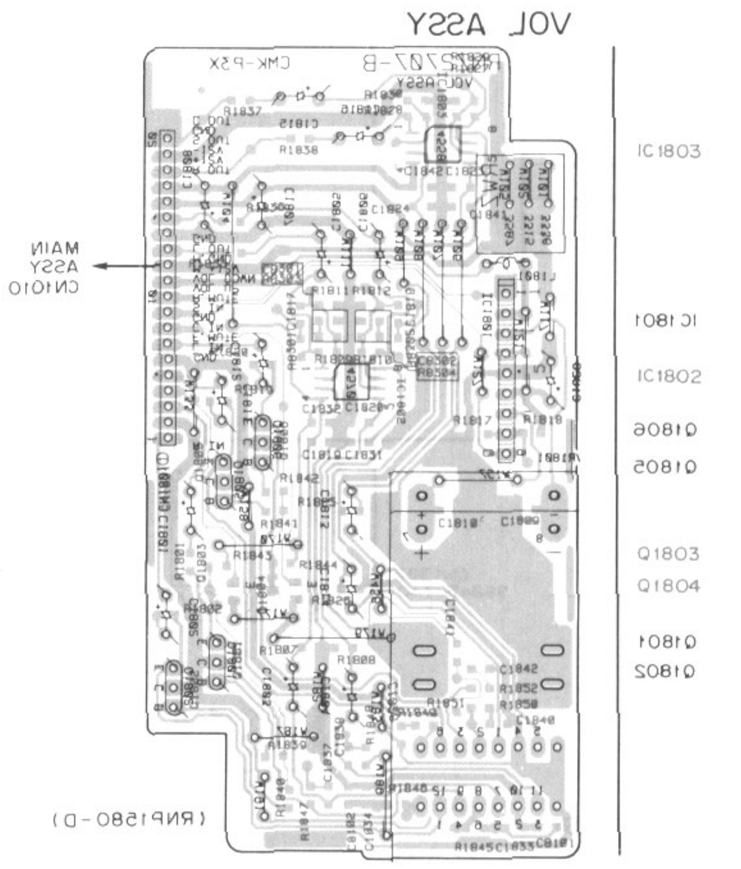
	C1839, C1840	R1849, R1850	R1827, R1828	R1829, R1830
HEZI/DI, HE, HE/FR, HB	0.033	33k	0	Not used
SD, SL	3300p	100k	4.3k	4.7k

VOL ASSY

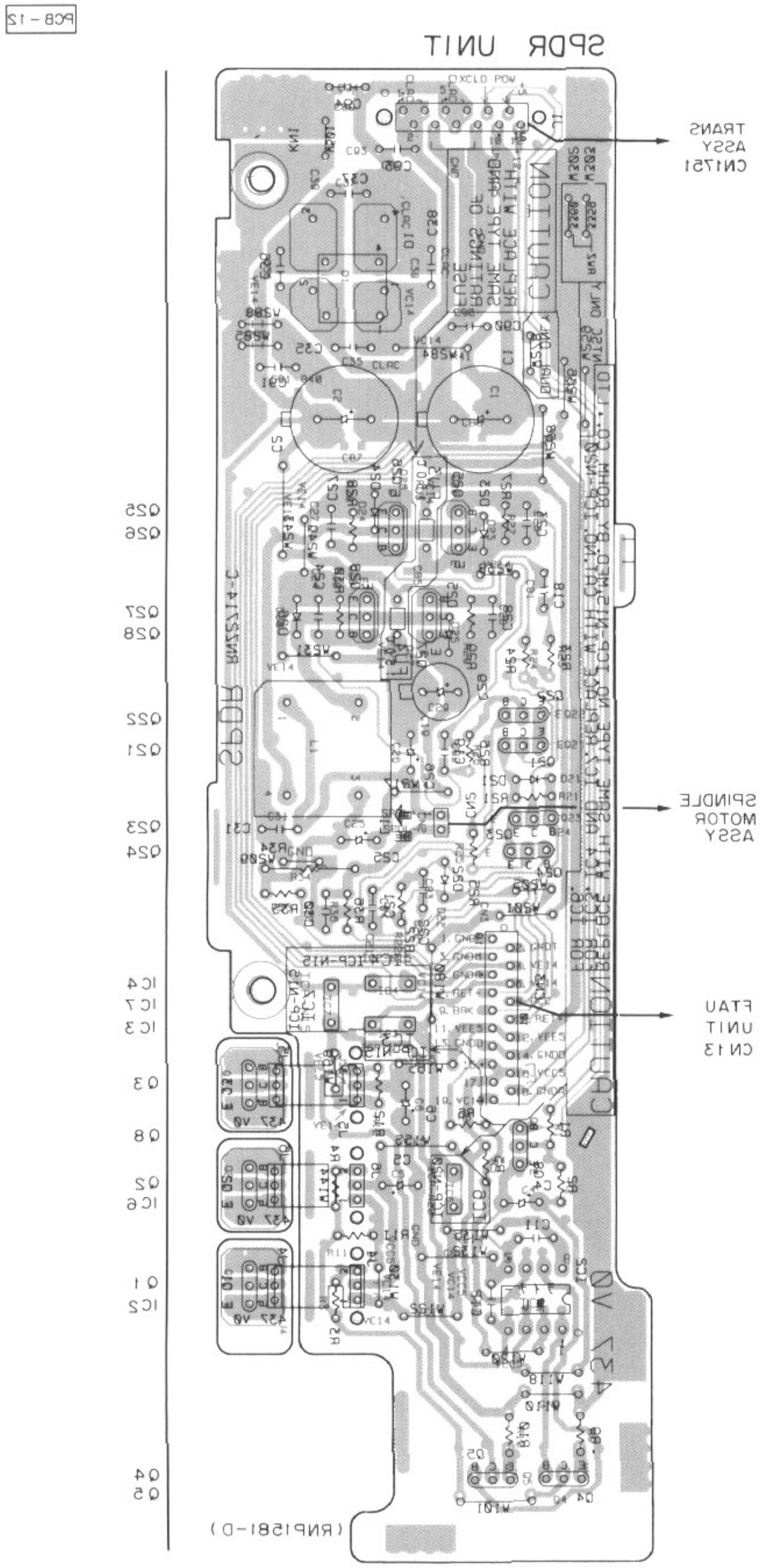
PCB-11


RWZ2707-B
CMK-P3X
VOL ASSY
IC1803
IC1801
IC1802
Q1806
Q1805
Q1803
Q1804
Q1801
Q1802
MAIN ASSY CN1010
(RNP1580-D)

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

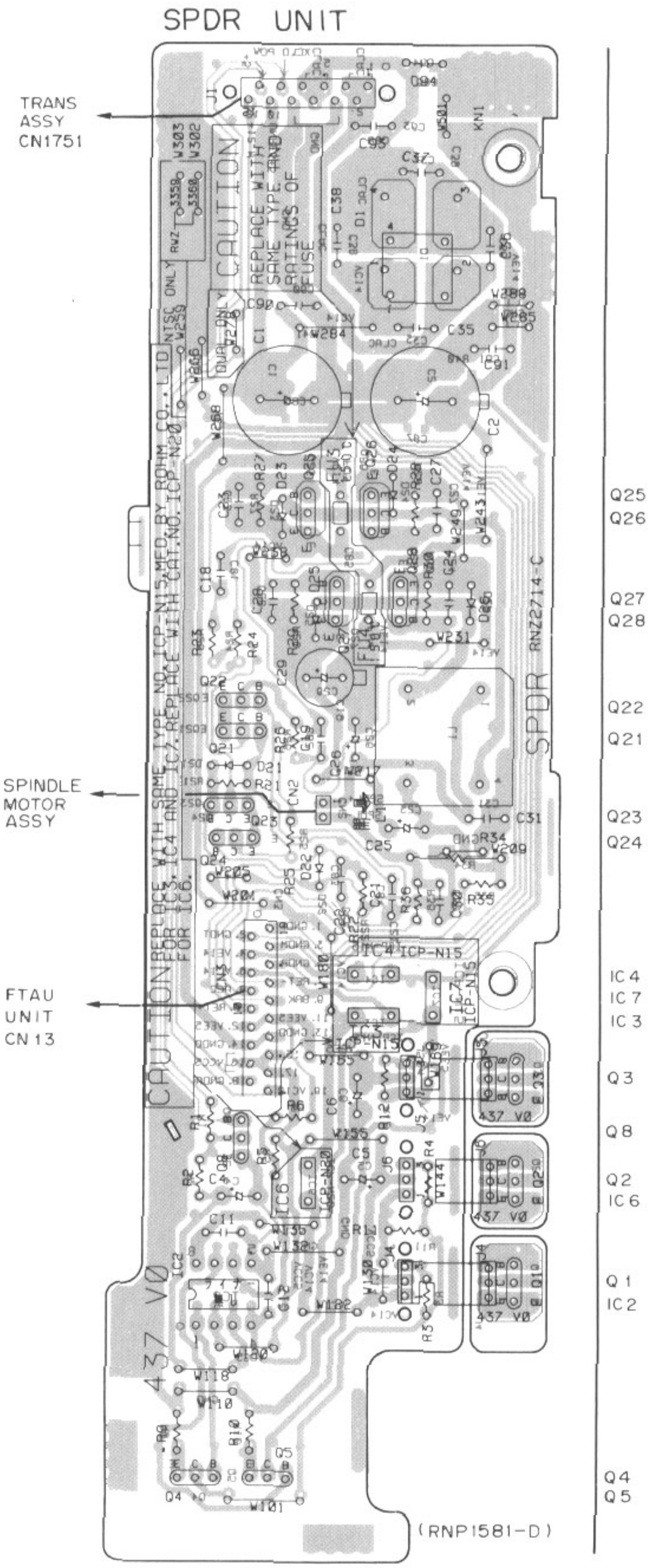

VOL ASSY
CMK-P3X
IC1803
IC1801
IC1802
Q1806
Q1805
Q1803
Q1804
Q1801
Q1802
MAIN ASSY CN1010
(RNP1580-D)

- This diagram is viewed from the foil side.

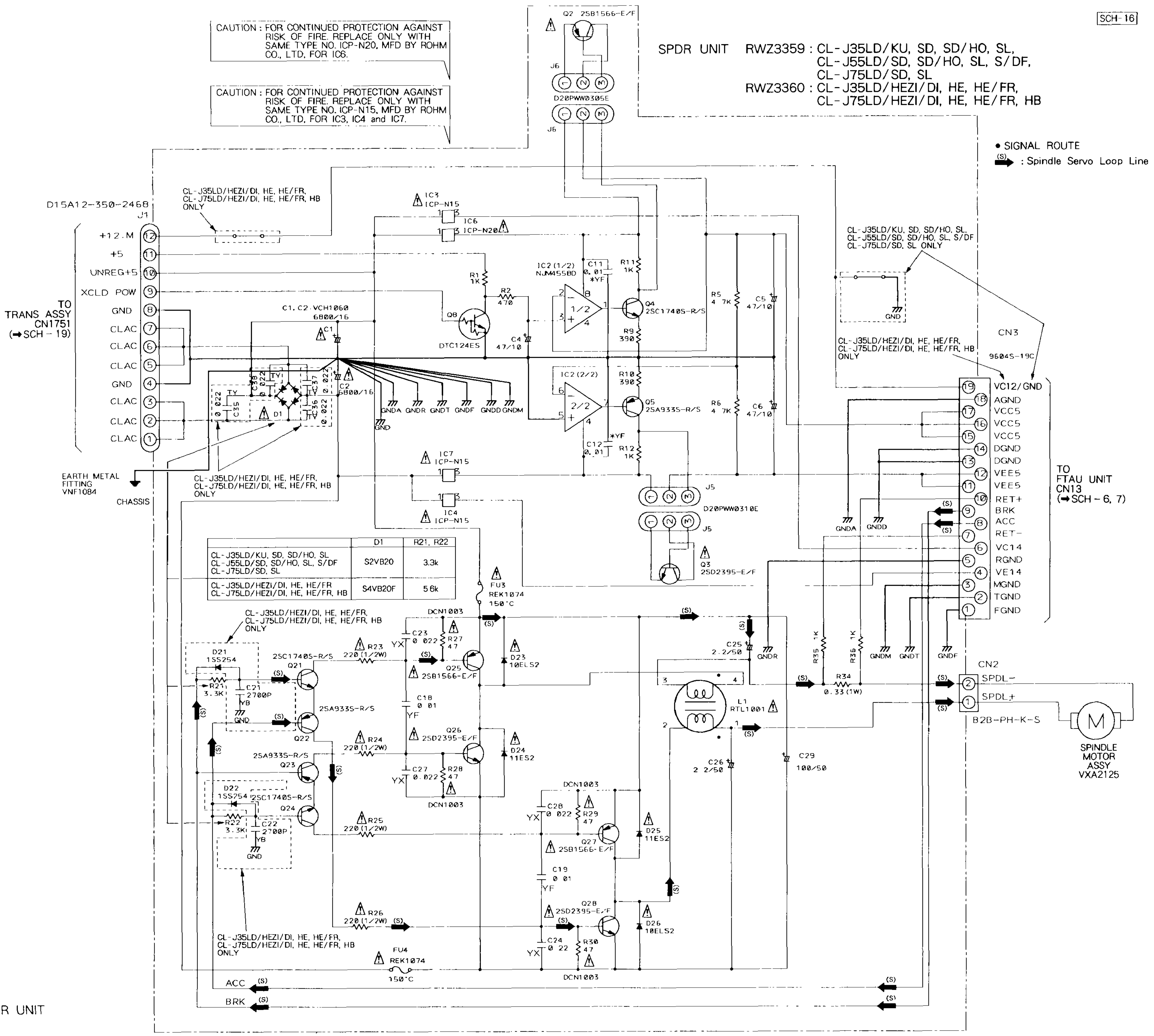

PCB - 12
SPDR UNIT
TRANS ASSY CN1751
SPINDLE MOTOR ASSY
FTAU UNIT CN13
Q25
Q26
Q27
Q28
Q22
Q21
Q23
Q24
IC4
IC7
IC3
Q3
Q8
Q2
IC6
Q1
IC2
Q4
Q5
(RNP1581-D)

• This diagram is viewed from the foil side.

4.16 SPDR UNIT


SPDR UNIT
TRANS ASSY CN1751
SPINDLE MOTOR ASSY
FTAU UNIT CN13
CAUTION REPLACE WITH SAME TYPE AND RATINGS OF FUSE
RNZ2714-C
SPDR
Q25
Q26
Q27
Q28
Q22
Q21
Q23
Q24
IC4
IC7
IC3
Q3
Q8
Q2
IC6
Q1
IC2
Q4
Q5
(RNP1581-D)

- This diagram is viewed from the mounted parts side.
- *The parts mounted on this PCB* include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.


SCH-16
Q2 2SB1566-E/F
J6
D20PWW0305E
D15A12-350-2468
J1
+12.M
+5
UNREG+5
XCLD POW
GND
CLAC
CLAC
CLAC
GND
CLAC
CLAC
CLAC
TO
TRANS ASSY
CN1751
(➡SCH-19)
CL-J35LD/HEZI/DI, HE, HE/FR,
CL-J75LD/HEZI/DI, HE, HE/FR, HB
ONLY
IC3 ICP-N15
IC6 ICP-N20
R1 1K
R2 470
Q8
DTC124ES
C4 47/10
C1, C2 VCH1060 6800/16
C1
C2 6800/16
C35 0.022
C36 0.022
C37 0.022
C38 0.022
TY
D1
GNDA GNDR GNDT GNDF GNDD GNDM
GND
IC2(1/2) NJM4558D
C11 0.01 *YF
R11 1K
Q4 2SC1740S-R/S
R9 390
R5 4.7K
C5 47/10
IC2(2/2)
R10 390
Q5 2SA933S-R/S
R6 4.7K
C6 47/10
*YF
C12 0.01
R12 1K
J5
D20PWW0310E
Q3 2SD2395-E/F
EARTH METAL
FITTING
VNF1084
CHASSIS
IC7 ICP-N15
IC4 ICP-N15
FU3 REK1074 150°C
DCN1003
C23 0.022
R27 47
R23 220(1/2W)
2SC1740S-R/S
Q21
Q25 2SB1566-E/F
D23 10ELS2
D21 1SS254
R21 3.3K
C21 2700P YB
GND
2SA933S-R/S
Q22
C18 0.01 YF
R24 220(1/2W)
Q26 2SD2395-E/F
D24 11ES2
2SA933S-R/S
Q23
C27 0.022
R28 47
YX
D22 1SS254
R22 3.3K
2SC1740S-R/S
Q24
C22 2700P YB
GND
R25 220(1/2W)
C28 0.022
R29 47
Q27 2SB1566-E/F
D25 11ES2
C19 0.01 YF
R26 220(1/2W)
Q28 2SD2395-E/F
D26 10ELS2
C24 0.22
R30 47
FU4 REK1074 150°C
ACC
BRK
(S)
L1 RTL1001
C25 2.2/50
C26 2.2/50
C29 100/50
GNDR
R35 1K
R36 1K
R34 0.33(1W)
GNDM GNDT GNDF
CN2
SPDL-
SPDL+
B2B-PH-K-S
SPINDLE MOTOR ASSY VXA2125
CL-J35LD/KU, SD, SD/HO, SL,
CL-J55LD/SD, SD/HO, SL, S/DF
CL-J75LD/SD, SL ONLY
GND
CL-J35LD/HEZI/DI, HE, HE/FR,
CL-J75LD/HEZI/DI, HE, HE/FR, HB
ONLY
CN3
9604S-19C
VC12/GND
AGND
VCC5
VCC5
VCC5
DGND
DGND
VEE5
VEE5
RET+
BRK
ACC
RET-
VC14
RGND
VE14
MGND
TGND
FGND
GNDA GNDD
TO
FTAU UNIT
CN13
(➡SCH-6, 7)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N20, MFD BY ROHM CO., LTD. FOR IC6.

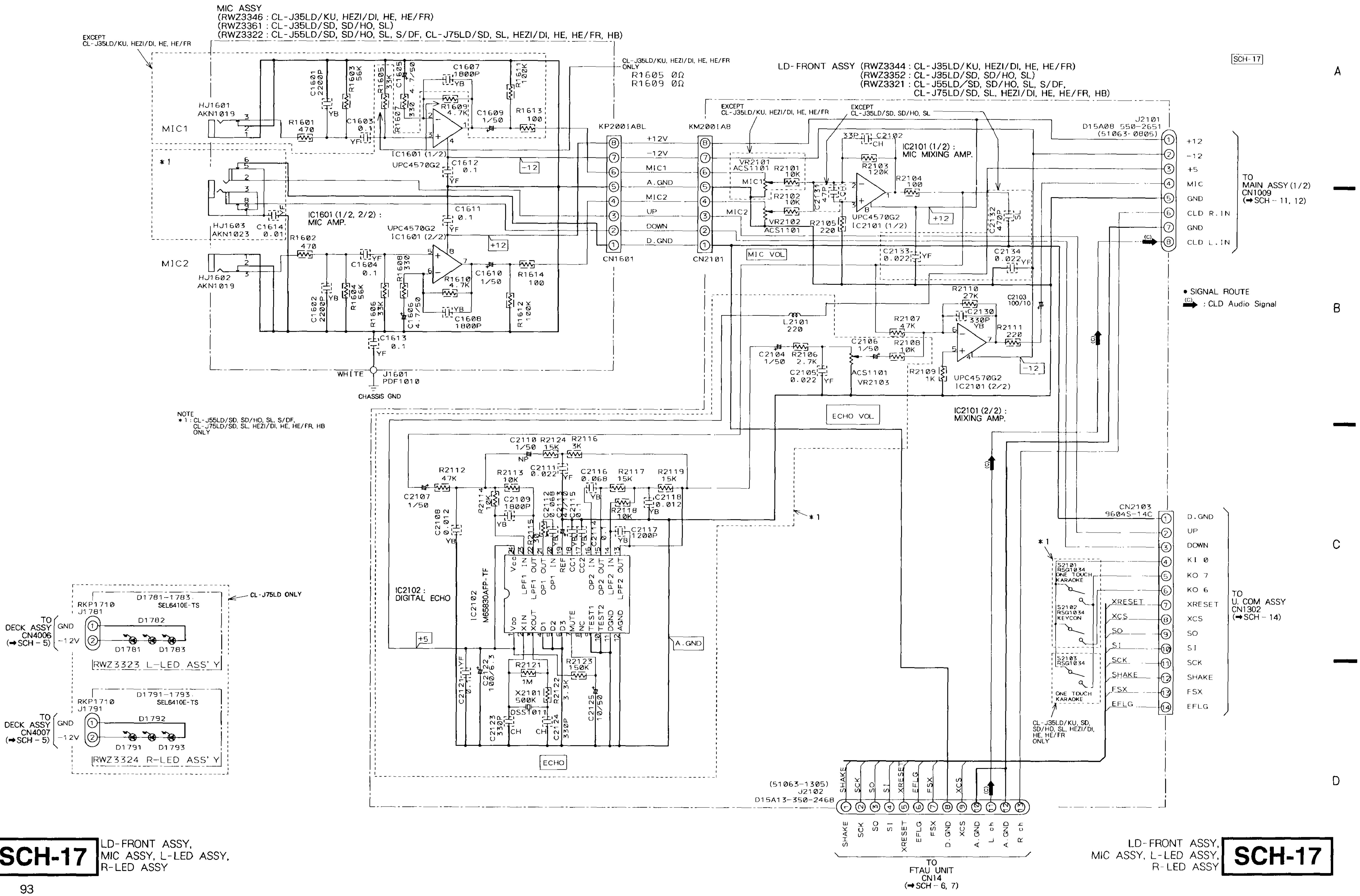
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N15, MFD BY ROHM CO., LTD. FOR IC3, IC4 and IC7.

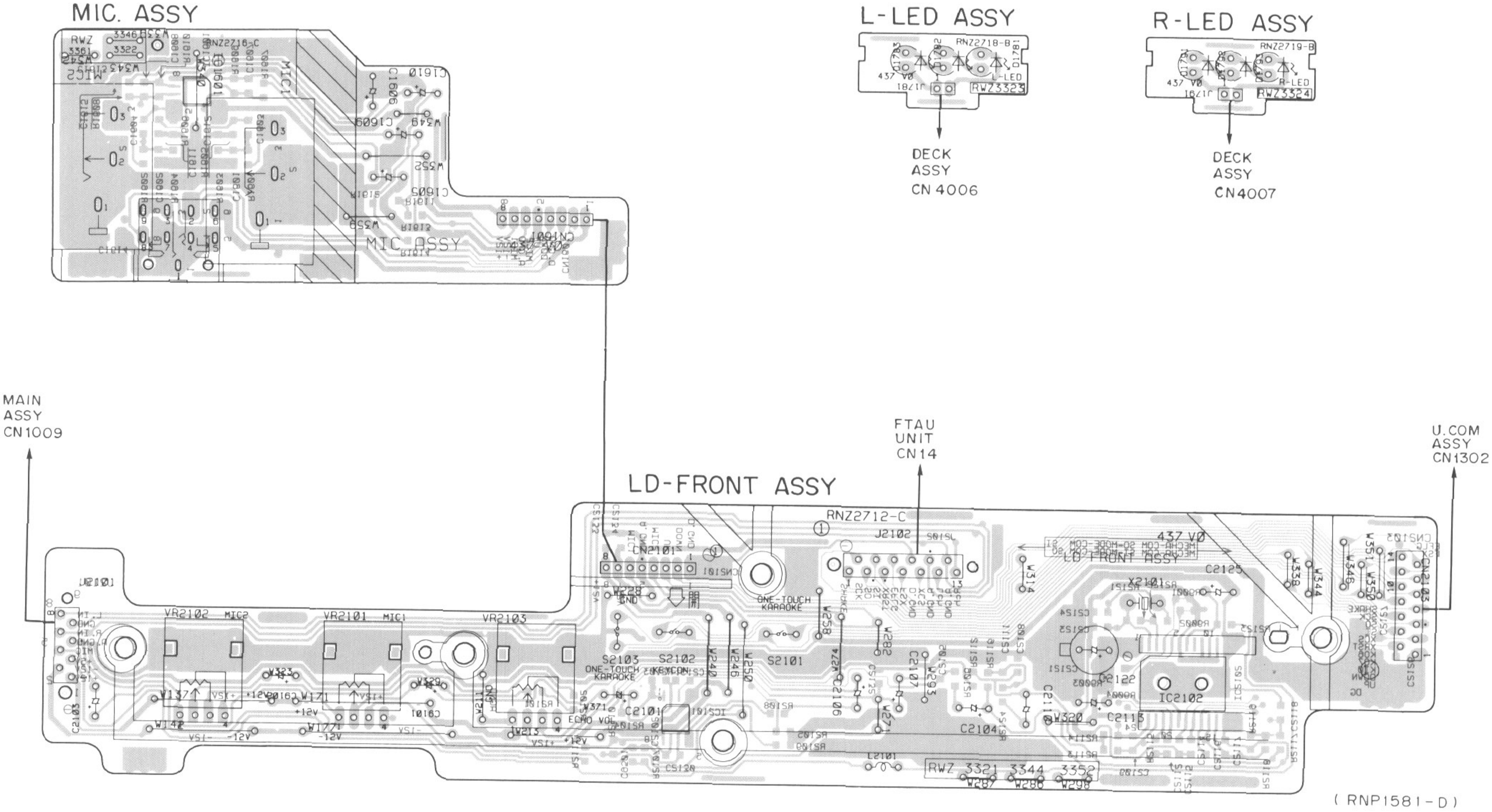
SPDR UNIT RWZ3359 : CL-J35LD/KU, SD, SD/HO, SL,
CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL
RWZ3360 : CL-J35LD/HEZI/DI, HE, HE/FR,
CL-J75LD/HEZI/DI, HE, HE/FR, HB

• SIGNAL ROUTE
(S)➡ : Spindle Servo Loop Line

	D1	R21, R22
CL-J35LD/KU, SD, SD/HO, SL CL-J55LD/SD, SD/HO, SL, S/DF CL-J75LD/SD, SL	S2VB20	3.3k
CL-J35LD/HEZI/DI, HE, HE/FR CL-J75LD/HEZI/DI, HE, HE/FR, HB	S4VB20F	5.6k

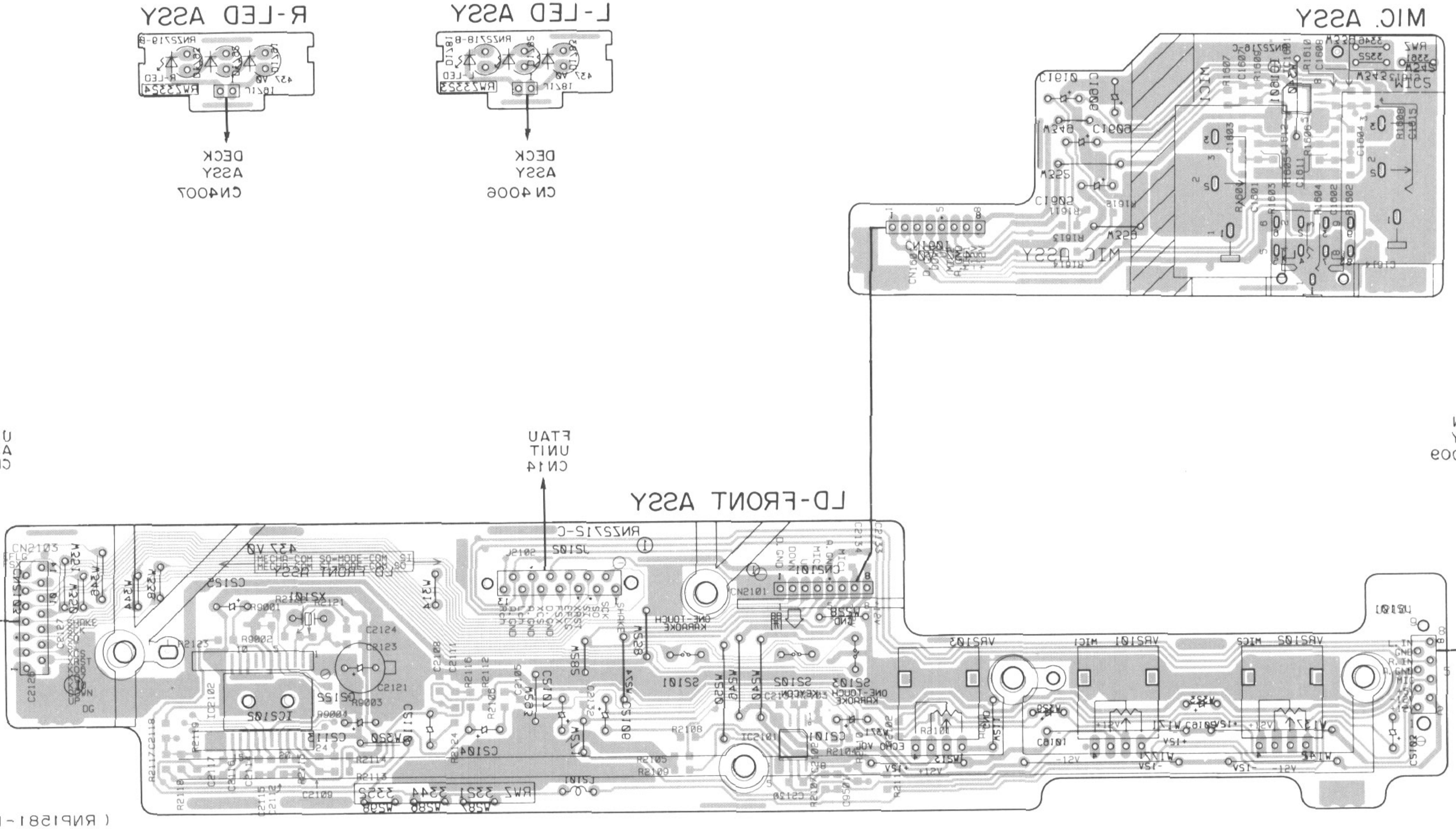
4.17 LD-FRONT, MIC, L-LED AND R-LED ASSEMBLIES


MIC ASSY
(RWZ3346 : CL-J35LD/KU, HEZI/DI, HE, HE/FR)
(RWZ3361 : CL-J35LD/SD, SD/HO, SL)
(RWZ3322 : CL-J55LD/SD, SD/HO, SL, S/DF, CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB)
EXCEPT CL-J35LD/KU, HEZI/DI, HE, HE/FR
CL-J35LD/KU, HEZI/DI, HE, HE/FR ONLY
R1605 0Ω
R1609 0Ω
MIC1
HJ1601
AKN1019
MIC2
HJ1602
AKN1019
HJ1603
AKN1023
*1
R1601 470
R1602 470
C1601 2200P YB
C1602 2200P YB
R1603 56K
R1604 56K
C1603 0.1 YF
C1604 0.1 YF
R1605 33K
R1606 33K
C1605 4.7/50
C1606 4.7/50
R1607 330
R1608 330
C1607 1800P YB
C1608 1800P YB
R1609 4.7K
R1610 4.7K
C1609 1/50
C1610 1/50
R1611 100K
R1612 100K
R1613 100
R1614 100
C1611 0.1 YF
C1612 0.1 YF
C1613 0.1 YF
C1614 0.01 YF
IC1601 (1/2)
UPC4570G2
IC1601 (1/2, 2/2) :
MIC AMP.
UPC4570G2
IC1601 (2/2)
-12
+12
WHITE
J1601
PDF1010
CHASSIS GND
KP2001ABL
CN1601
KM2001A8
CN2101
+12V
-12V
MIC1
A.GND
MIC2
UP
DOWN
D.GND
LD-FRONT ASSY (RWZ3344 : CL-J35LD/KU, HEZI/DI, HE, HE/FR)
(RWZ3352 : CL-J35LD/SD, SD/HO, SL)
(RWZ3321 : CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB)
SCH-17
EXCEPT CL-J35LD/KU, HEZI/DI, HE, HE/FR
EXCEPT CL-J35LD/SD, SD/HO, SL
VR2101 ACS1101
VR2102 ACS1101
R2101 10K
R2102 10K
MIC VOL
33P C2102 CH
R2103 120K
R2104 100
R2105 220
C2131 47P CH
C2132 470P SL
IC2101 (1/2) :
MIC MIXING AMP.
UPC4570G2
IC2101 (1/2)
+12
C2133 0.022 YF
C2134 0.022 YF
J2101
D15A08 550-2651
(51063-0805)
+12
-12
+5
MIC
GND
CLD R.IN
GND
CLD L.IN
TO
MAIN ASSY (1/2)
CN1009
(➡SCH - 11, 12)
• SIGNAL ROUTE
(C) : CLD Audio Signal
L2101 220
R2110 27K
C2103 100/10
C2130 330P YB
R2107 47K
R2108 10K
R2111 220
C2104 1/50
R2106 2.7K
C2105 0.022 YF
C2106 1/50
ACS1101
VR2103
R2109 1K
UPC4570G2
IC2101 (2/2)
-12
ECHO VOL
IC2101 (2/2) :
MIXING AMP.
NOTE
*1 : CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB
ONLY
C2110 1/50 NP
R2124 15K
R2116 3K
R2112 47K
R2113 10K
C2111 0.022 YF
C2116 0.068
R2117 15K
R2119 15K
C2107 1/50
C2108 0.012 YB
R2114 10K
C2109 1800P YB
C2112
C2115
R2115
R2118 10K
C2118 0.012 YB
C2114
C2117 1200P YB
*1
IC2102 :
DIGITAL ECHO
IC2102
M65830AFP-TF
Vcc
LPF1 IN
LPF1 OUT
OP1 OUT
OP1 IN
REF
CC1
CC2
OP2 IN
OP2 OUT
LPF2 IN
LPF2 OUT
Vdd
XIN
XOUT
D1
D2
D3
MUTE
NC
TEST1
TEST2
DGND
AGND
+5
A.GND
C2121 0.1 YF
C2122 100/6.3
R2121 1M
X2101 500K DSS1011
R2122 3.3K
R2123 150K
C2125 10/50
C2123 330P CH
C2124 330P CH
ECHO
CN2103
9604S-14C
D.GND
UP
DOWN
KI 0
KO 7
KO 6
XRESET
XCS
SO
SI
SCK
SHAKE
FSX
EFLG
TO
U. COM ASSY
CN1302
(➡SCH - 14)
*1
S2101 RSG1034 ONE TOUCH KARAOKE
S2102 RSG1034 KEYCON
S2103 RSG1034 ONE TOUCH KARAOKE
CL-J35LD/KU, SD, SD/HO, SL, HEZI/DI, HE, HE/FR ONLY
(51063-1305)
J2102
D15A13-350-2468
SHAKE
SCK
SO
SI
XRESET
EFLG
FSX
D.GND
XCS
A.GND
L ch
A.GND
R ch
TO
FTAU UNIT
CN14
(➡SCH - 6, 7)
CL-J75LD ONLY
D1781-1783 SEL6410E-TS
RKP1710
J1781
D1782
D1781
D1783
TO DECK ASSY CN4006 (➡SCH - 5)
GND
-12V
RWZ3323 L-LED ASS' Y
D1791-1793 SEL6410E-TS
RKP1710
J1791
D1792
D1791
D1793
TO DECK ASSY CN4007 (➡SCH - 5)
GND
-12V
RWZ3324 R-LED ASS' Y
1
2
3
4
5
6
A
B
C
D

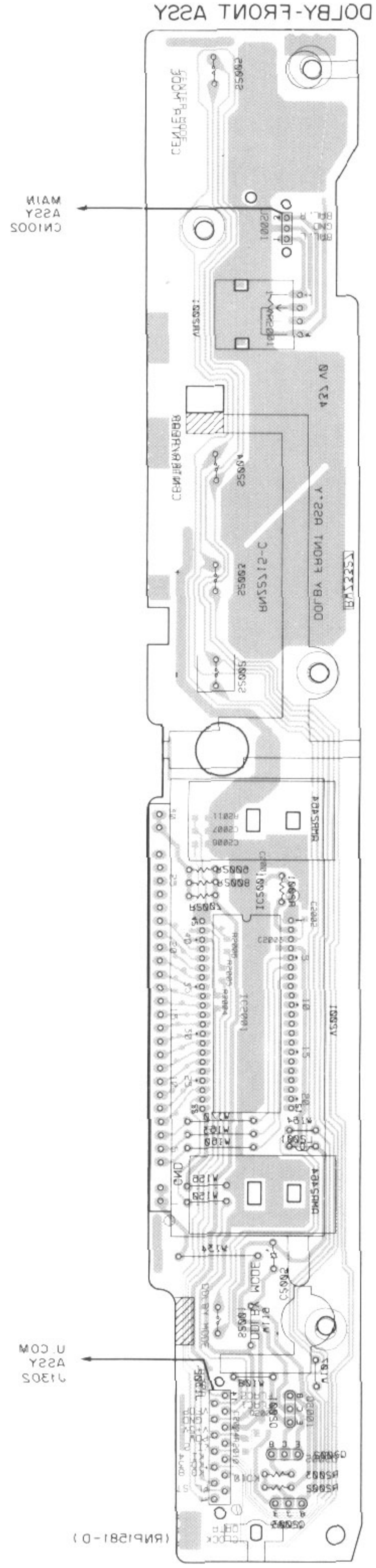

MIC. ASSY
RNZ2718-C
MIC1
MIC2
CN1601
L-LED ASSY
RNZ2718-B
L-LED
RWZ3323
DECK ASSY CN 4006
R-LED ASSY
RNZ2719-B
R-LED
RWZ3324
DECK ASSY CN4007
MAIN ASSY CN1009
FTAU UNIT CN14
U.COM ASSY CN1302
LD-FRONT ASSY
RNZ2712-C
CN2101
J2102
CN2103
VR2102
VR2101
VR2103
S2103
S2102
S2101
ONE-TOUCH KARAOKE
KEYCON
ECHO VOL
IC2102
X2101
RWZ 3321 3344 3352
437 V0
(RNP1581-D)

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

PCB-13


R-LED ASSY
L-LED ASSY
MIC ASSY
DECK ASSY CN4007
DECK ASSY CN4006
U.COM ASSY CN1302
FTAU UNIT CN14
MAIN ASSY CN1009
LD-FRONT ASSY
RNZ2719-B
RNZ2718-B
RNZ2716-C
RNZ2712-C
CN1601
CN2101
CN2103
CN2102
VR2101
VR2102
VR2103
MIC1
MIC2
ONE-TOUCH KARAOKE
SHAKE
(RNP1581-D)

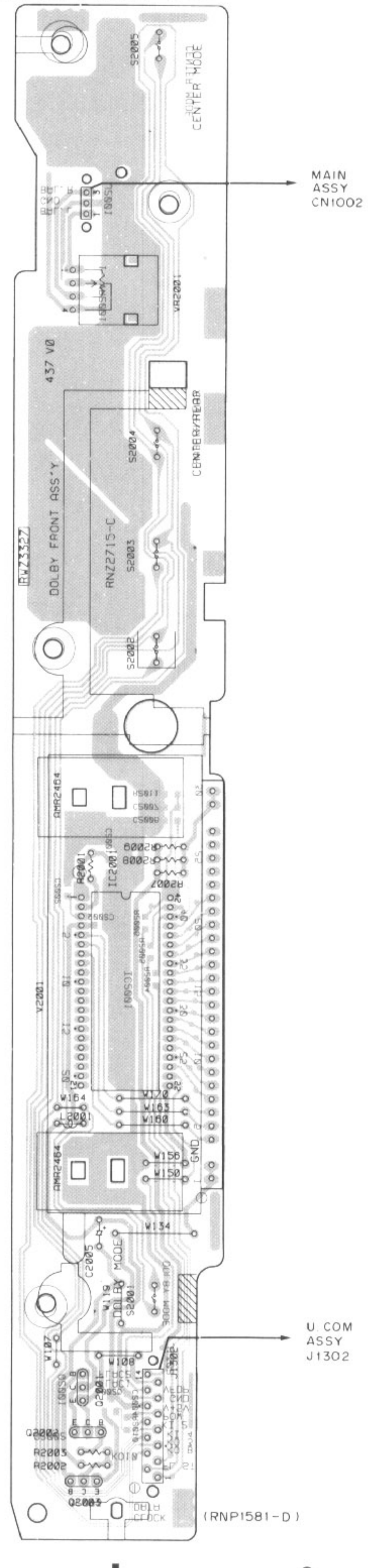
● This diagram is viewed from the foil side.


DOLBY-FRONT ASSY
MAIN ASSY CN1002
U.COM ASSY J1302
(RNP1581-D)

- This diagram is viewed from the foil side.

4.18 DOLBY-FRONT ASSY (CL-J75LD ONLY)

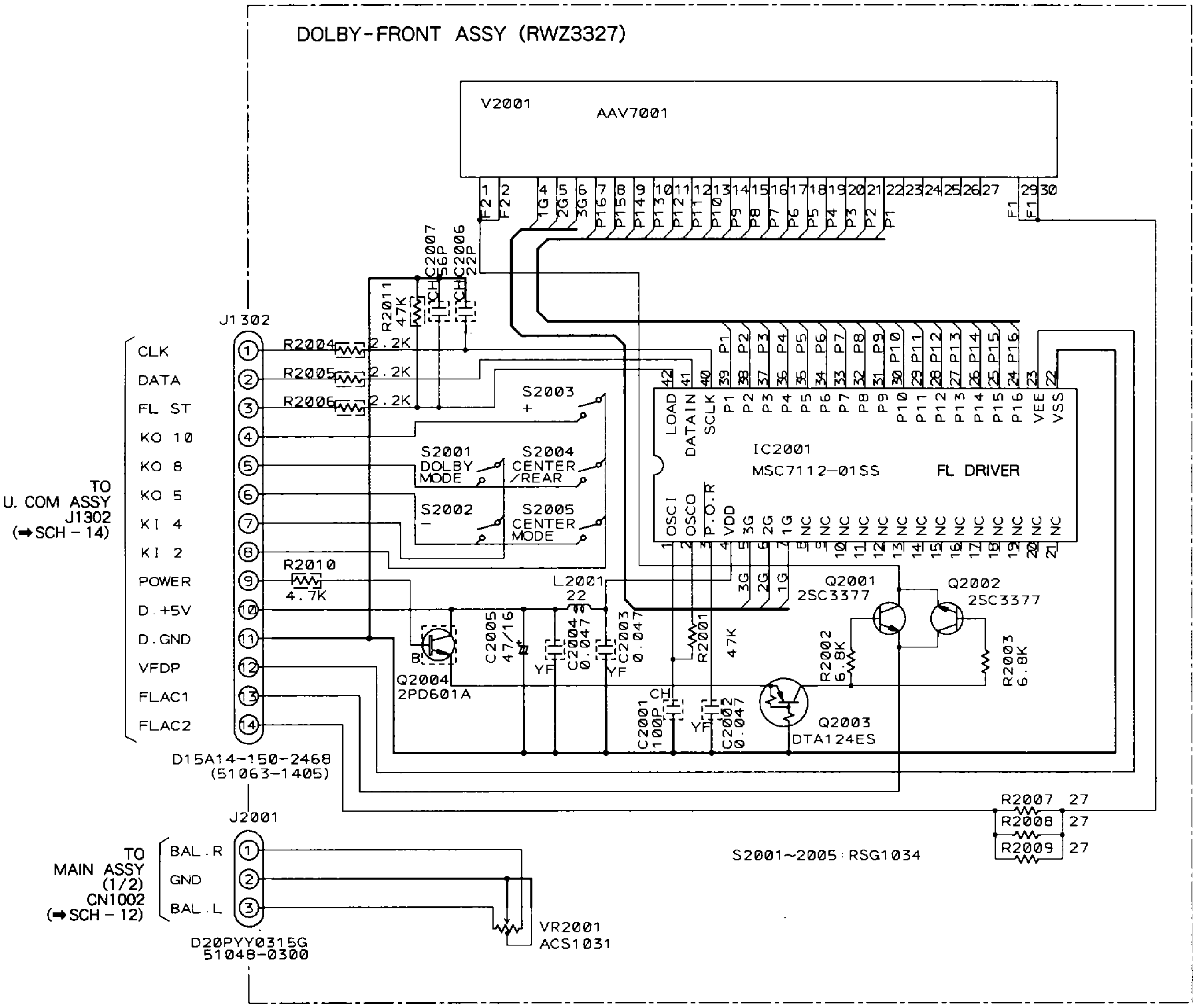
DOLBY-FRONT ASSY


S2005
ROOM FIELD
CENTER MODE
MAIN
ASSY
CN1002
BU1T B
GND
BU1T F
CN2001
VR2001
437 V0
CENTER/REAR
S2004
DOLBY FRONT ASS'Y
RWZ3327
RNZ2715-C
S2003
S2002
AMR2464
IC2001
R2001
R2007
R2008
IC5001
V2001
W164
L2001
W170
W163
W160
W156
W150
GND
AMR2464
W134
C2005
W119
DOLBY MODE
S2001
ROOM FIELD
W107
W108
J1302
Q2001
Q2002
R2003
R2002
Q2003
DEMO CLOCK
U. COM
ASSY
J1302
(RNP1581-D)

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

A A

SCH-18


DOLBY-FRONT ASSY (RWZ3327)
V2001
AAV7001
F2 F2 1G 2G 3G P16 P15 P14 P13 P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1 F1 F1
C2007 56P
C2006 22P
CH
R2011 47K
J1302
CLK
DATA
FL ST
KO 10
KO 8
KO 5
KI 4
KI 2
POWER
D.+5V
D.GND
VFDP
FLAC1
FLAC2
TO
U. COM ASSY
J1302
(➡SCH - 14)
R2004 2.2K
R2005 2.2K
R2006 2.2K
S2003 +
S2001 DOLBY MODE
S2004 CENTER /REAR
S2002 −
S2005 CENTER MODE
R2010 4.7K
LOAD DATAIN SCLK
IC2001
MSC7112-01SS
FL DRIVER
VEE VSS
OSCI OSCO P.O.R VDD 3G 2G 1G NC
L2001 22
C2005 47/16
C2004 0.047
C2003 0.047
YF
Q2004
2PD601A
R2001 47K
Q2001 2SC3377
Q2002 2SC3377
R2002 6.8K
R2003 6.8K
C2001 100P CH
C2002 0.047 YF
Q2003
DTA124ES
D15A14-150-2468
(51063-1405)
R2007 27
R2008 27
R2009 27
S2001~2005 : RSG1034
J2001
BAL.R
GND
BAL.L
TO
MAIN ASSY
(1/2)
CN1002
(➡SCH - 12)
VR2001
ACS1031
D20PYY0315G
51048-0300

B B

C C

D D

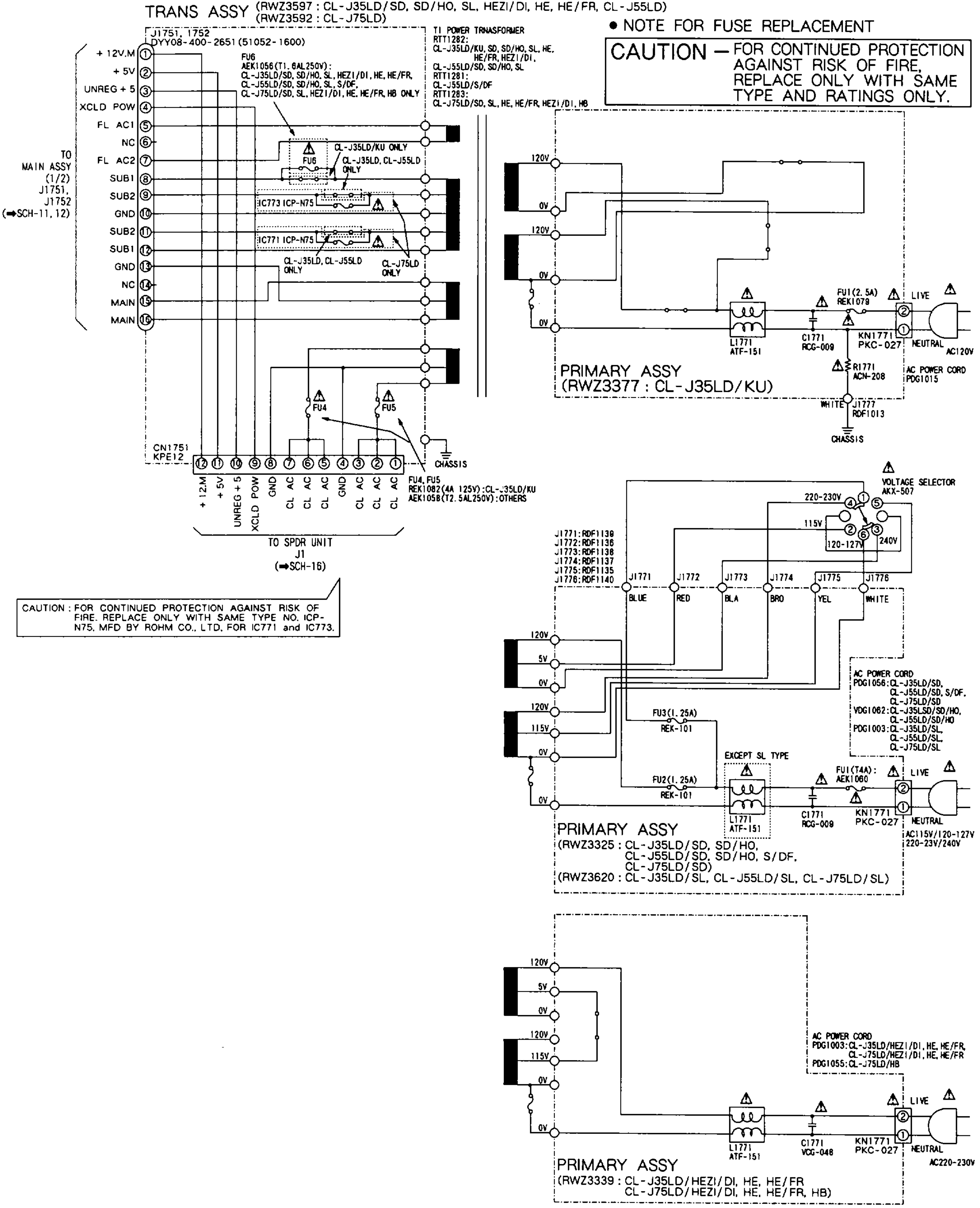
DOLBY-FRONT ASSY **SCH-18**

4.19 TRANS AND PRIMARY ASSEMBLIES

SCH-19

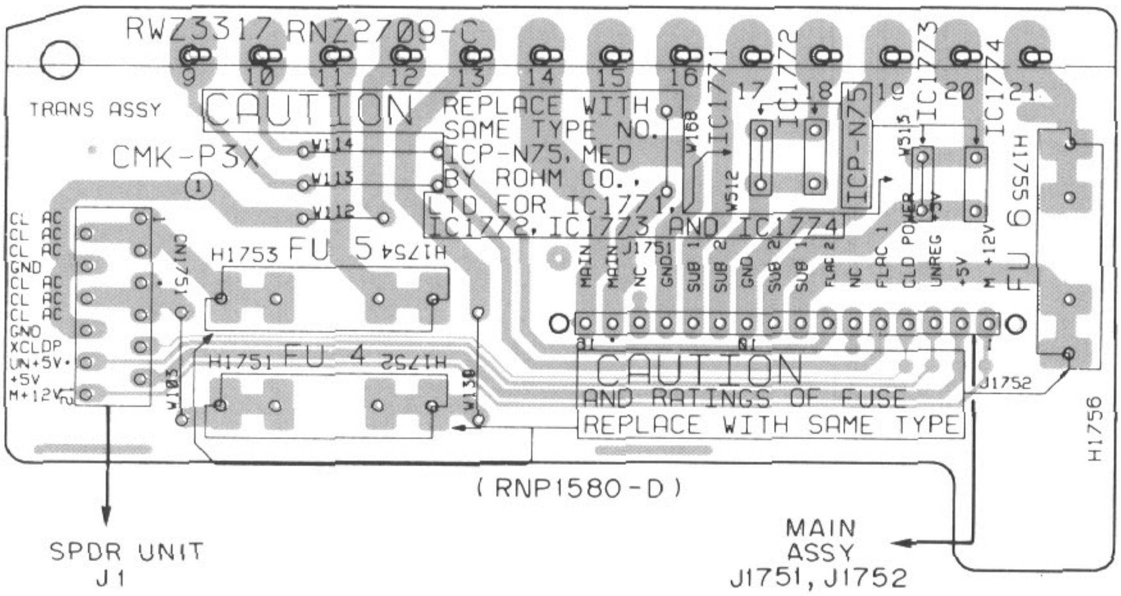
● NOTE FOR FUSE REPLACEMENT

CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

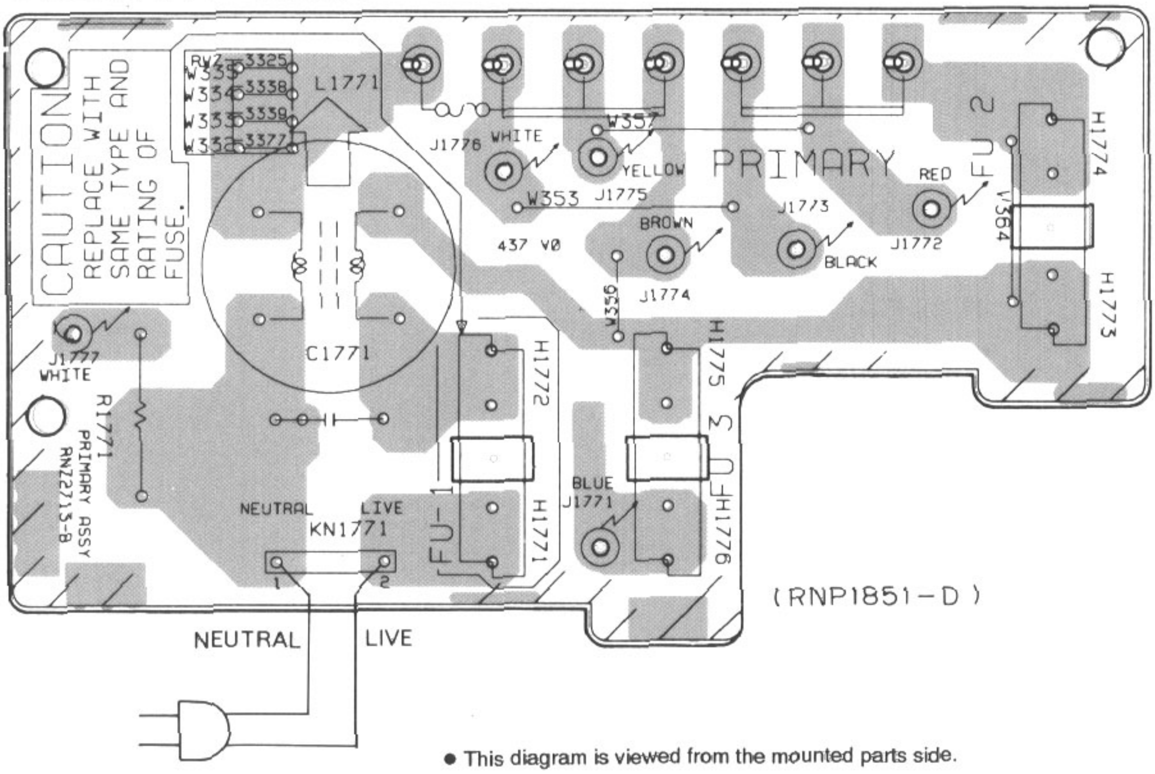

TRANS ASSY (RWZ3317 : CL-J35LD/KU)
(RWZ3597 : CL-J35LD/SD, SD/HO, SL, HEZI/DI, HE, HE/FR, CL-J55LD)
(RWZ3592 : CL-J75LD)
J1751, 1752
DYY08-400-2651 (51052-1600)
+ 12V.M ①
+ 5V ②
UNREG + 5 ③
XCLD POW ④
FL AC1 ⑤
NC ⑥
FL AC2 ⑦
SUB1 ⑧
SUB2 ⑨
GND ⑩
SUB2 ⑪
SUB1 ⑫
GND ⑬
NC ⑭
MAIN ⑮
MAIN ⑯
TO MAIN ASSY (1/2) J1751, J1752 (➡SCH-11, 12)
FU6
AEK1056(T1.6AL250V):
CL-J35LD/SD, SD/HO, SL, HEZI/DI, HE, HE/FR,
CL-J55LD/SD, SD/HO, SL, S/DF,
CL-J75LD/SD, SL, HEZI/DI, HE, HE/FR, HB ONLY
T1 POWER TRNASFORMER
RTT1282:
CL-J35LD/KU, SD, SD/HO, SL, HE, HE/FR, HEZI/DI,
CL-J55LD/SD, SD/HO, SL
RTT1281:
CL-J55LD/S/DF
RTT1283:
CL-J75LD/SD, SL, HE, HE/FR, HEZI/DI, HB
FU6
CL-J35LD/KU ONLY
CL-J35LD, CL-J55LD ONLY
IC773 ICP-N75
IC771 ICP-N75
CL-J35LD, CL-J55LD ONLY
CL-J75LD ONLY
FU4
FU5
CHASSIS
CN1751
KPE12
⑫ ⑪ ⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
+ 12.M
+ 5V
UNREG + 5
XCLD POW
GND
CL AC
CL AC
CL AC
GND
CL AC
CL AC
CL AC
FU4, FU5
REK1082(4A 125V):CL-J35LD/KU
AEK1058(T2.5AL250V):OTHERS
TO SPDR UNIT J1 (➡SCH-16)
120V
0V
120V
0V
0V
L1771
ATF-151
C1771
RCG-009
FU1(2.5A)
REK1079
LIVE
②
①
KN1771
PKC-027
NEUTRAL
AC120V
R1771
ACN-208
AC POWER CORD
PDG1015
WHITE
J1777
RDF1013
CHASSIS
PRIMARY ASSY
(RWZ3377 : CL-J35LD/KU)
VOLTAGE SELECTOR
AKX-507
220-230V
115V
120-127V
240V
① ② ③ ④ ⑤ ⑥
J1771:RDF1139
J1772:RDF1136
J1773:RDF1138
J1774:RDF1137
J1775:RDF1135
J1776:RDF1140
J1771
J1772
J1773
J1774
J1775
J1776
BLUE
RED
BLA
BRO
YEL
WHITE
120V
5V
0V
120V
115V
0V
0V
FU3(1.25A)
REK-101
FU2(1.25A)
REK-101
EXCEPT SL TYPE
L1771
ATF-151
C1771
RCG-009
FU1(T4A):
AEK1060
LIVE
KN1771
PKC-027
NEUTRAL
AC POWER CORD
PDG1056:CL-J35LD/SD,
CL-J55LD/SD, S/DF,
CL-J75LD/SD
VDG1062:CL-J35LSD/SD/HO,
CL-J55LD/SD/HO
PDG1003:CL-J35LD/SL,
CL-J55LD/SL,
CL-J75LD/SL
AC115V/120-127V
220-23V/240V
PRIMARY ASSY
(RWZ3325 : CL-J35LD/SD, SD/HO,
CL-J55LD/SD, SD/HO, S/DF,
CL-J75LD/SD)
(RWZ3620 : CL-J35LD/SL, CL-J55LD/SL, CL-J75LD/SL)
120V
5V
0V
120V
115V
0V
0V
AC POWER CORD
PDG1003:CL-J35LD/HEZI/DI, HE, HE/FR,
CL-J75LD/HEZI/DI, HE, HE/FR
PDG1055:CL-J75LD/HB
L1771
ATF-151
C1771
VCG-048
LIVE
KN1771
PKC-027
NEUTRAL
AC220-230V
PRIMARY ASSY
(RWZ3339 : CL-J35LD/HEZI/DI, HE, HE/FR
CL-J75LD/HEZI/DI, HE, HE/FR, HB)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N75. MFD BY ROHM CO., LTD. FOR IC771 and IC773.

TRANS ASSY


RWZ3317 RNZ2709-C
TRANS ASSY
CMK-P3X
CAUTION REPLACE WITH SAME TYPE NO. ICP-N75, MED BY ROHM CO., LTD FOR IC1771, IC1772, IC1773 AND IC1774
IC1771
IC1772
IC1773
IC1774
ICP-N75
W114
W113
W112
W168
W512
W513
H1753 FU 5 H1754
H1751 FU 4 H1752
H1755 FU 6
H1756
CN1751
J1751
J1752
W103
W130
CL AC
CL AC
CL AC
GND
CL AC
CL AC
CL AC
GND
XCLDP
UN+5V
+5V
M+12V
MAIN
MAIN
NC
GND
SUB 1
SUB 2
GND
SUB 2
SUB 1
FLAC 2
NC
FLAC 1
CLD POWER
UNREG
+5V
M +12V
CAUTION AND RATINGS OF FUSE REPLACE WITH SAME TYPE
(RNP1580-D)
SPDR UNIT J1
MAIN ASSY J1751, J1752

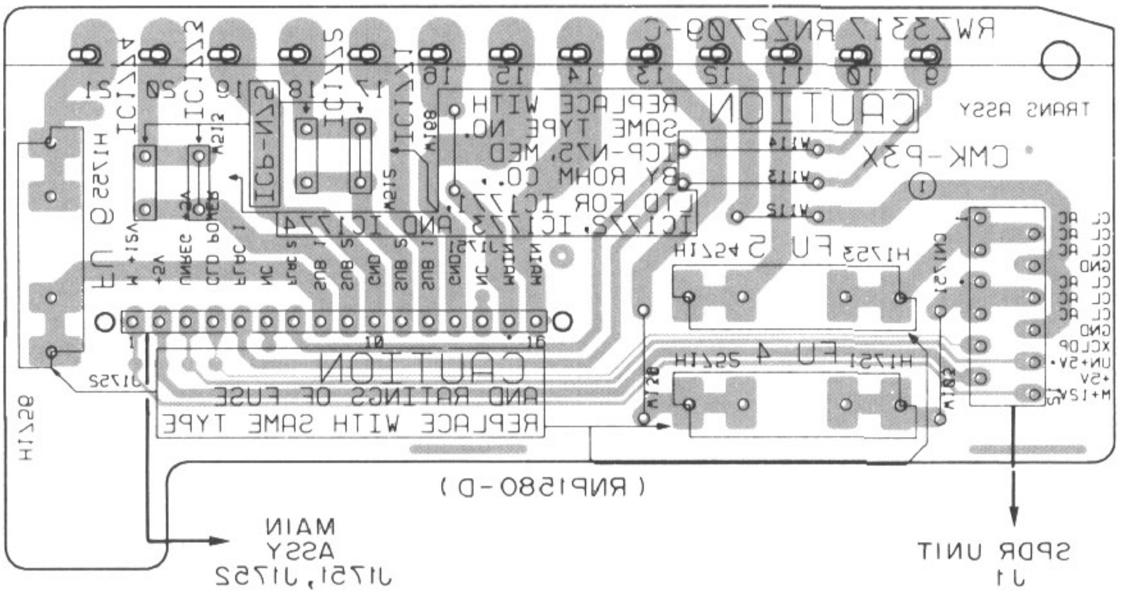
PRIMARY ASSY


CAUTION REPLACE WITH SAME TYPE AND RATING OF FUSE.
RWZ3325
W3338
W3339
W3377
W335
W334
W333
W332
L1771
J1776 WHITE
W357
YELLOW
PRIMARY
RED
FU 2
H1774
W353 J1775
J1773
BROWN
437 V0
BLACK
J1772
W364
H1773
W356
J1774
C1771
J1777 WHITE
R1771
H1772
H1775
FU 3
PRIMARY ASSY RNZ2713-B
NEUTRAL
LIVE
KN1771
FU-1
H1771
BLUE J1771
H1776
(RNP1851-D)
NEUTRAL
LIVE

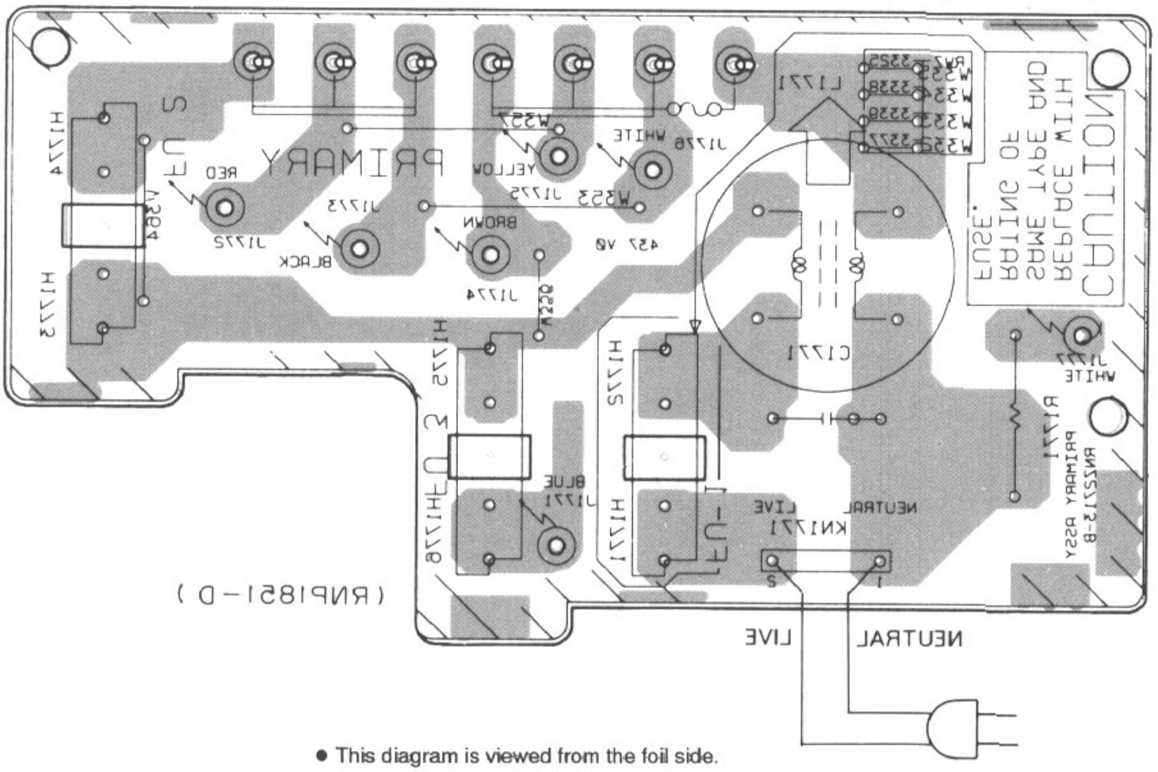
- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

PCB – 15

TRANS ASSY


RW23317 RN22709-C
TRANS ASSY
CMK-P3X
CAUTION
REPLACE WITH
SAME TYPE NO.
ICP-N25, MED
BY ROHM CO.,
LTD FOR IC1771,
IC1772, IC1773 AND IC1774
CAUTION
AND RATINGS OF FUSE
REPLACE WITH SAME TYPE
FU 5 H1754
FU 4 H1752
H1753
H1751
H1755
H1756
FU 6
IC1771
IC1772
IC1773
IC1774
ICP-N25
CN1751
J1751
J1752
M+12V
+5V
UN+5V
XCLOP
GND
CL AC
GND
+5V
UNREG
CLD POWER
PLAC 1
MAIN
(RNP1580-D)
MAIN
ASSY
J1751, J1752
SPDR UNIT
J1

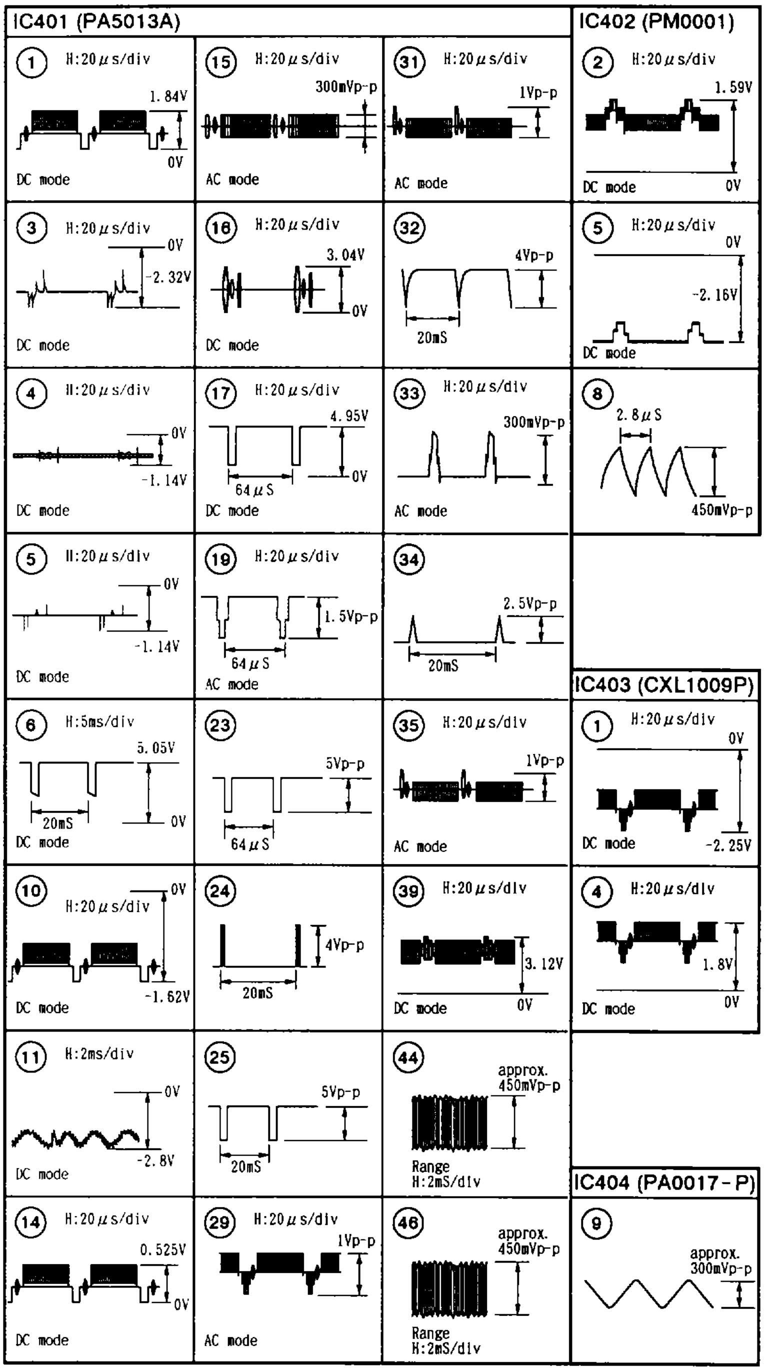
PRIMARY ASSY


PRIMARY
CAUTION
REPLACE WITH
SAME TYPE AND
RATINGS OF
FUSE.
L1771
C1771
R1771
PRIMARY ASSY
RNZ1213-B
FU 5
FU 3
FU 1
H1771
H1772
H1773
H1774
H1775
H1776
J1772 RED
J1773 BLACK
J1774 BROWN
J1775 YELLOW
J1776 WHITE
J1777 WHITE
J1771 BLUE
W353
W357
KN1771
LIVE
NEUTRAL
(RNP1851-D)
LIVE
NEUTRAL

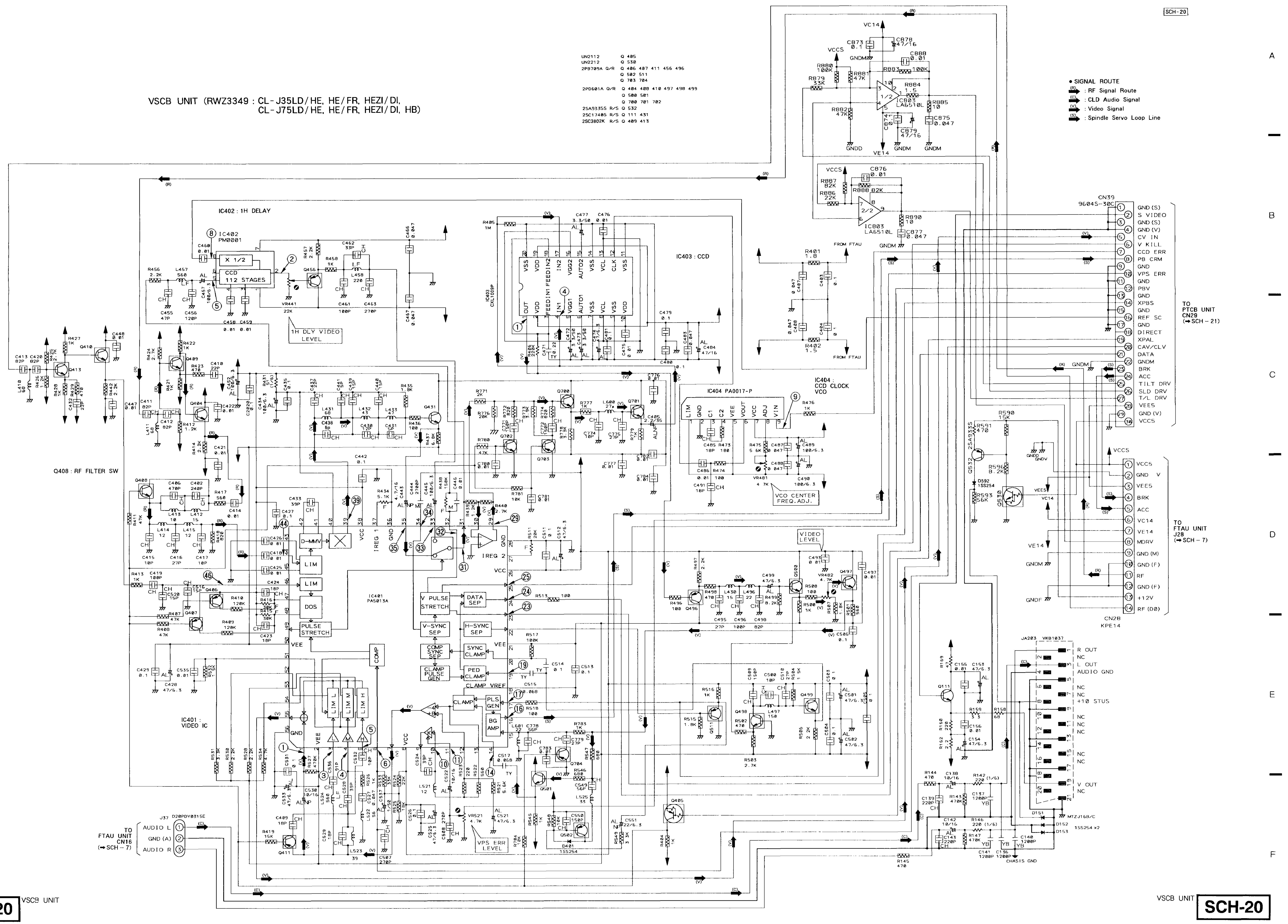
● This diagram is viewed from the foil side.

WAVEFORMES OF VSCB UNIT

Note : (No.) in the table correspond to the pin number.


IC401 (PA5013A)
① H:20μs/div 1.84V 0V DC mode
⑮ H:20μs/div 300mVp-p AC mode
㉛ H:20μs/div 1Vp-p AC mode
③ H:20μs/div 0V -2.32V DC mode
⑯ H:20μs/div 3.04V 0V DC mode
㉜ 4Vp-p 20mS
④ H:20μs/div 0V -1.14V DC mode
⑰ H:20μs/div 4.95V 0V 64μS DC mode
㉝ H:20μs/div 300mVp-p AC mode
⑤ H:20μs/div 0V -1.14V DC mode
⑲ H:20μs/div 1.5Vp-p 64μS AC mode
㉞ 2.5Vp-p 20mS
⑥ H:5ms/div 5.05V 20mS 0V DC mode
㉓ 5Vp-p 64μS
㉟ H:20μs/div 1Vp-p AC mode
⑩ H:20μs/div 0V -1.62V DC mode
㉔ 4Vp-p 20mS
㊴ H:20μs/div 3.12V DC mode 0V
⑪ H:2ms/div 0V -2.8V DC mode
㉕ 5Vp-p 20mS
㊹ approx. 450mVp-p Range H:2mS/div
⑭ H:20μs/div 0.525V 0V DC mode
㉙ H:20μs/div 1Vp-p AC mode
㊻ approx. 450mVp-p Range H:2mS/div
IC402 (PM0001)
② H:20μs/div 1.59V DC mode 0V
⑤ H:20μs/div 0V -2.16V DC mode
⑧ 2.8μS 450mVp-p
IC403 (CXL1009P)
① H:20μs/div 0V DC mode -2.25V
④ H:20μs/div 1.8V DC mode 0V
IC404 (PA0017-P)
⑨ approx. 300mVp-p

4.20 VSCB UNIT

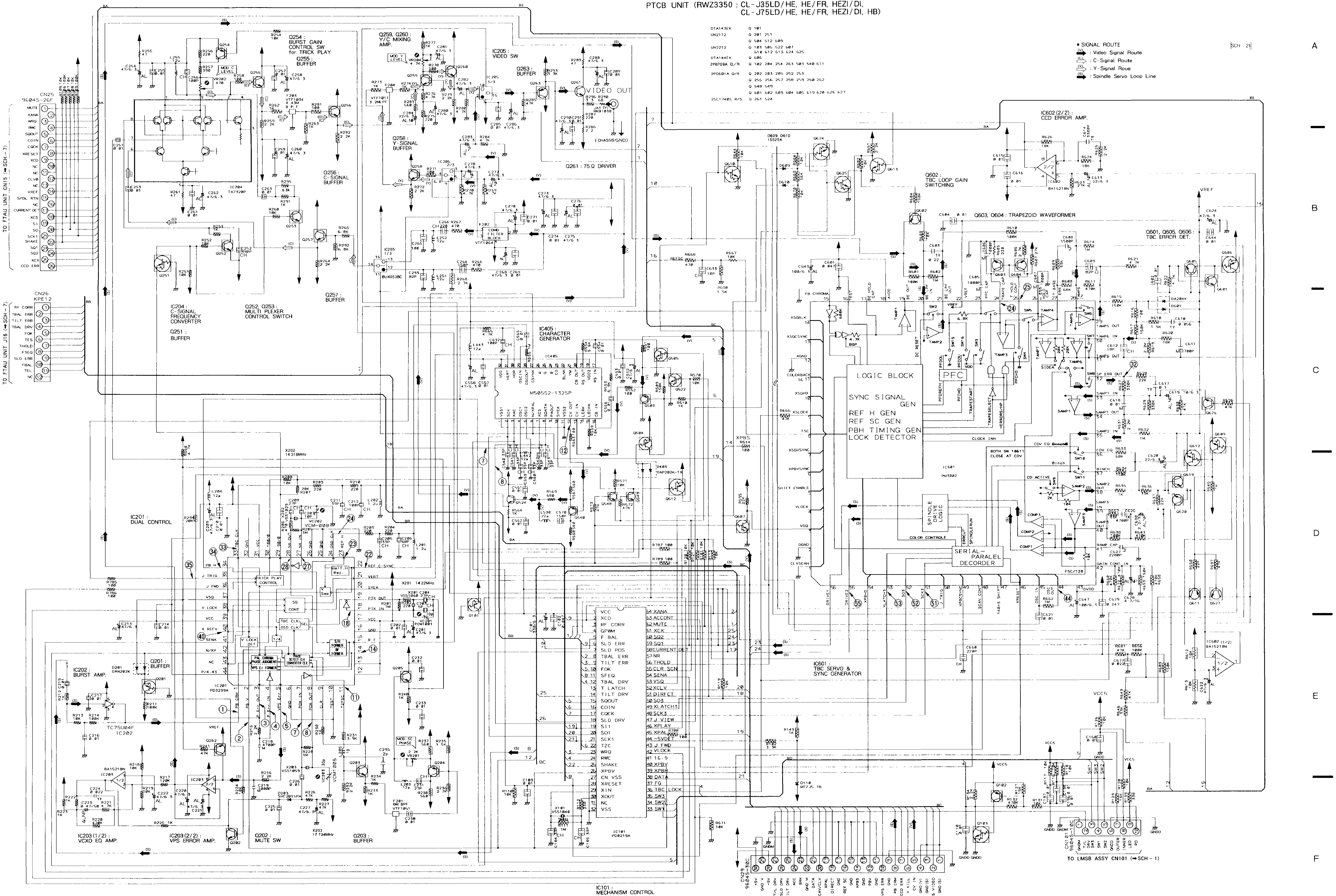

SCH-20
VSCB UNIT (RWZ3349 : CL-J35LD/HE, HE/FR, HEZI/DI,
CL-J75LD/HE, HE/FR, HEZI/DI, HB)
UN2112 Q 405
UN2212 Q 530
2PB709A Q/R Q 406 407 411 456 496
Q 502 511
Q 703 704
2PD601A Q/R Q 404 408 410 497 498 499
Q 500 501
Q 700 701 702
2SA933SS R/S Q 532
2SC1740S R/S Q 111 431
2SC3802K R/S Q 409 413
● SIGNAL ROUTE
(R) : RF Signal Route
(C) : CLD Audio Signal
(V) : Video Signal
(S) : Spindle Servo Loop Line
IC402 : 1H DELAY
IC402 PM0001
X 1/2
CCD 112 STAGES
1H DLY VIDEO LEVEL
VR441 22K
IC403 : CCD
IC403 CXL1008P
IC404 : CCD CLOCK VCO
IC404 PA0017-P
VCO CENTER FREQ. ADJ.
VR481 4.7K
IC803 LA6510L
VC14
VCCS
GNDM
GNDD
VE14
FROM FTAU
Q408 : RF FILTER SW
IC401 PA5013A
IC401 : VIDEO IC
D-MMV
LIM
DOS
PULSE STRETCH
COMP
V PULSE STRETCH
DATA SEP
V-SYNC SEP
H-SYNC SEP
COMP SYNC SEP
SYNC CLAMP
CLAMP PULSE GEN
PED CLAMP
CLAMP VREF
CLAMP
PLS GEN
BG AMP
IREG 1
IREG 2
VEE
VCC
GND
LIM L
LIM M
LIM H
VIDEO LEVEL
VR482 4.7K
VPS ERR LEVEL
VR521 4.7K
CN39 9604S-30C
① GND (S)
② S VIDEO
③ GND (S)
④ GND (V)
⑤ CV IN
⑥ V KILL
⑦ CCD ERR
⑧ PB CRM
⑨ GND
⑩ VPS ERR
⑪ GND
⑫ PBV
⑬ GND
⑭ XPBS
⑮ GND
⑯ REF SC
⑰ GND
⑱ DIRECT
⑲ XPAL
⑳ CAV/CLV
㉑ DATA
㉒ GNDM
㉓ BRK
㉔ ACC
㉕ TILT DRV
㉖ SLD DRV
㉗ T/L DRV
㉘ VEE5
㉙ GND (V)
㉚ VCC5
TO PTCB UNIT CN29 (→SCH-21)
① VCC5
② GND V
③ VEE5
④ BRK
⑤ ACC
⑥ VC14
⑦ VE14
⑧ MDRV
⑨ GND (M)
⑩ GND (F)
⑪ RF
⑫ GND (F)
⑬ +12V
⑭ RF (D0)
CN28 KPE14
TO FTAU UNIT J28 (→SCH-7)
JA203 VKB1037
R OUT
NC
L OUT
AUDIO GND
NC
NC
+10 STUS
NC
NC
NC
NC
NC
V OUT
NC
MTZJ16B/C
1SS254 ×2
CHASIS GND
J37 D20PDY0315E
AUDIO L
GND (A)
AUDIO R
TO FTAU UNIT CN16 (→SCH-7)
D401 1SS254
D592 1SS254

4.21 PTCB UNIT

PTCB UNIT (RWZ3350 : CL-J35LD/HE, HE/FR, HEZI/DI,
CL-J75LD/HE, HE/FR, HEZI/DI, HB)

DTA143EK	Q 101
UN2112	Q 201 251
	Q 504 512 609
UN2212	Q 103 505 522 607 610 612 613 624 625
DTA144EK	Q 606
2PB709A Q/R	Q 102 204 254 263 503 540 611
2PD601A Q/R	Q 202 203 205 252 253
	Q 255 256 257 258 259 260 262
	Q 548 549
	Q 601 602 603 604 605 619 620 626 627
2SC1740S R/S	Q 261 524

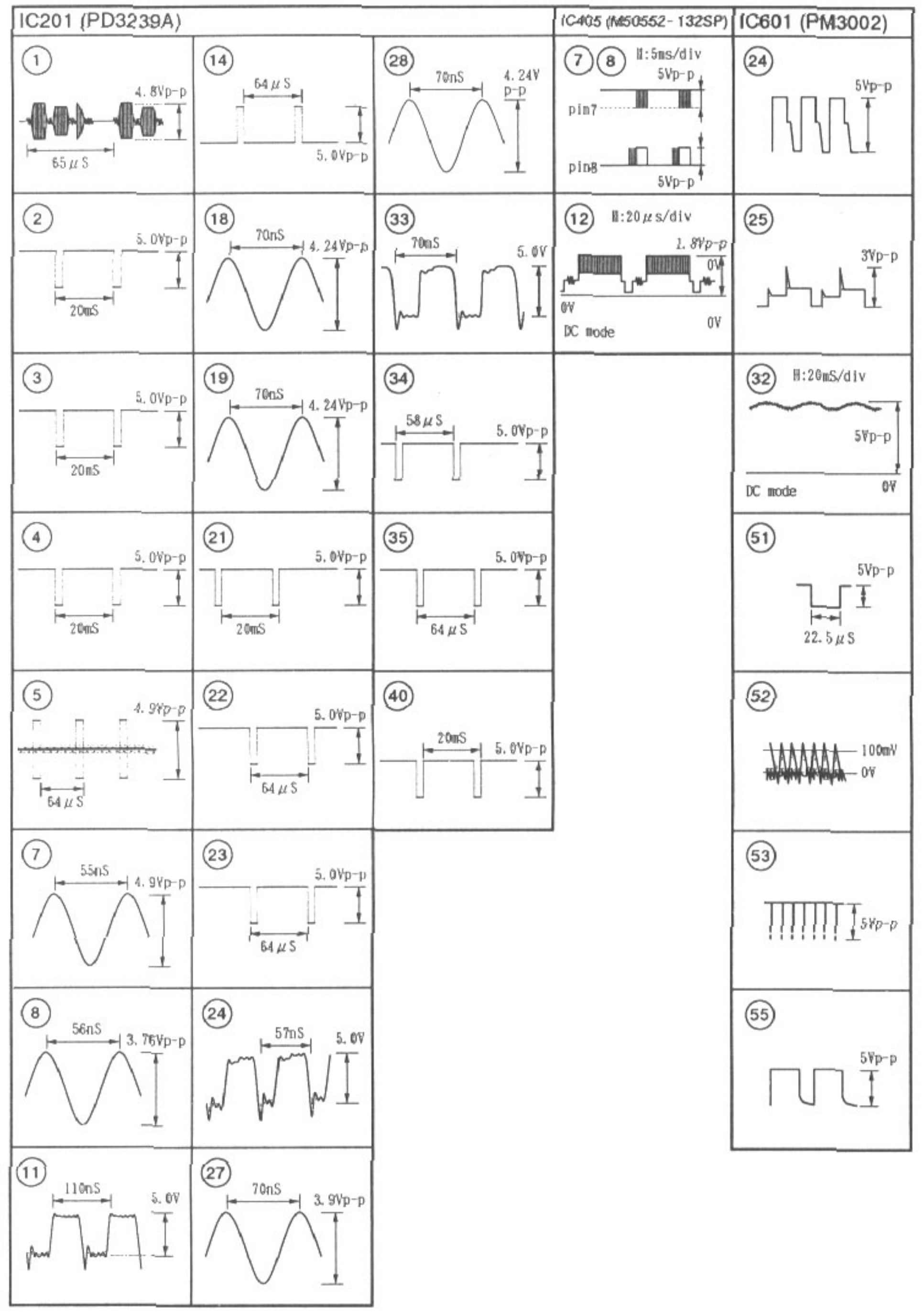
- SIGNAL ROUTE
- (V) ➡ : Video Signal Route
- (C) ⇨ : C-Signal Route
- (Y) ⇨ : Y-Signal Roue
- (S) ➡ : Spindle Servo Loop Line



IC204 : C-SIGNAL FREQUENCY CONVERTER
Q251 : BUFFER
Q252, Q253 : MULTI PLEXER CONTROL SWITCH
Q254 : BURST GAIN CONTROL SW for TRICK PLAY
Q255 : BUFFER
Q256 : C-SIGNAL BUFFER
Q257 : BUFFER
Q258 : Y-SIGNAL BUFFER
Q259, Q260 : Y/C MIXING AMP.
IC205 : VIDEO SW
Q263 : BUFFER
Q261 : 75 Ω DRIVER
VIDEO OUT
(CHASSIS GND)
IC205 1/3 BU4053BC
IC405 : CHARACTER GENERATOR
M50552-132SP
IC201 : DUAL CONTROL
IC201 PD3239A
IC202 : BURST AMP.
IC202 TC7SU04F
Q201 : BUFFER
IC203 (1/2) : VCXO EQ AMP.
IC203 (2/2) : VPS ERROR AMP.
Q202 : MUTE SW
Q203 : BUFFER
X202 14.318MHz
X201 14.22MHz
X203 17.734MHz
IC101 : MECHANISM CONTROL
IC101 PD8219A
IC601 : TBC SERVO & SYNC GENERATOR
IC601 PA3202
LOGIC BLOCK
SYNC SIGNAL GEN
REF H GEN
REF SC GEN
PBH TIMING GEN
LOCK DETECTOR
PFC
SPINDLE DRIVE LOGIC
SERIAL-PARALEL DECORDER
IC602 (2/2) : CCD ERROR AMP.
IC602 (1/2) BA15218N
Q602 : TBC LOOP GAIN SWITCHING
Q603, Q604 : TRAPEZOID WAVEFORMER
Q601, Q605, Q606 : TBC ERROR DET.
D609, D610 1SS254
CN25 9604S-26F
TO FTAU UNIT CN15 (→SCH-7)
CN26 KPE12
TO FTAU UNIT J16 (→SCH-7)
CN29 9604S-30C
TO VSCB UNIT CN39 (→SCH-20)
CN101 9604S-10C
TO LMSB ASSY CN101 (→SCH-1)

WAVEFORMES OF PTCB UNIT

Note : (No.) in the table correspond to the pin number.



Note : These waveformes and voltage are in the PAL disc playback.

IC201 (PD3239A)

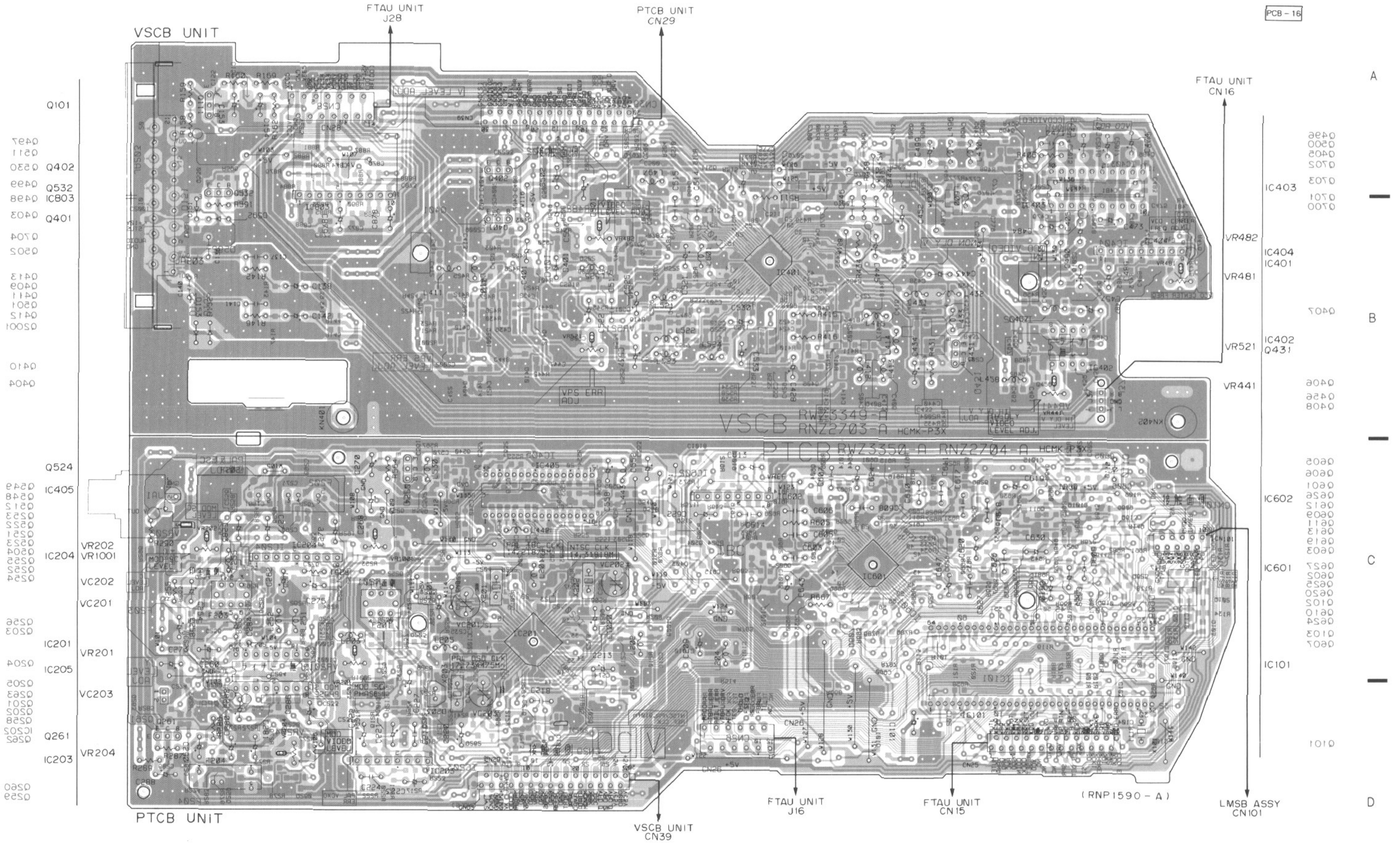
Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	*	12	5.0	23	*	34	*
2	*	13	5.0	24	*	35	*
3	*	14	*	25	0	36	5.0
4	*	15	5.0	26	0	37	5.0
5	*	16	0	27	*	38	5.0
6	0	17	5.0	28	*	39	5.0
7	*	18	*	29	5.0	40	*
8	*	19	*	30	5.0	41	0
9	5.0	20	5.0	31	5.0	42	0
10	0	21	*	32	0	43	5.0
11	*	22	*	33	*	44	5.0

* : Refer to waveforms

Note : Values indicate the voltages in the PLAY mode.

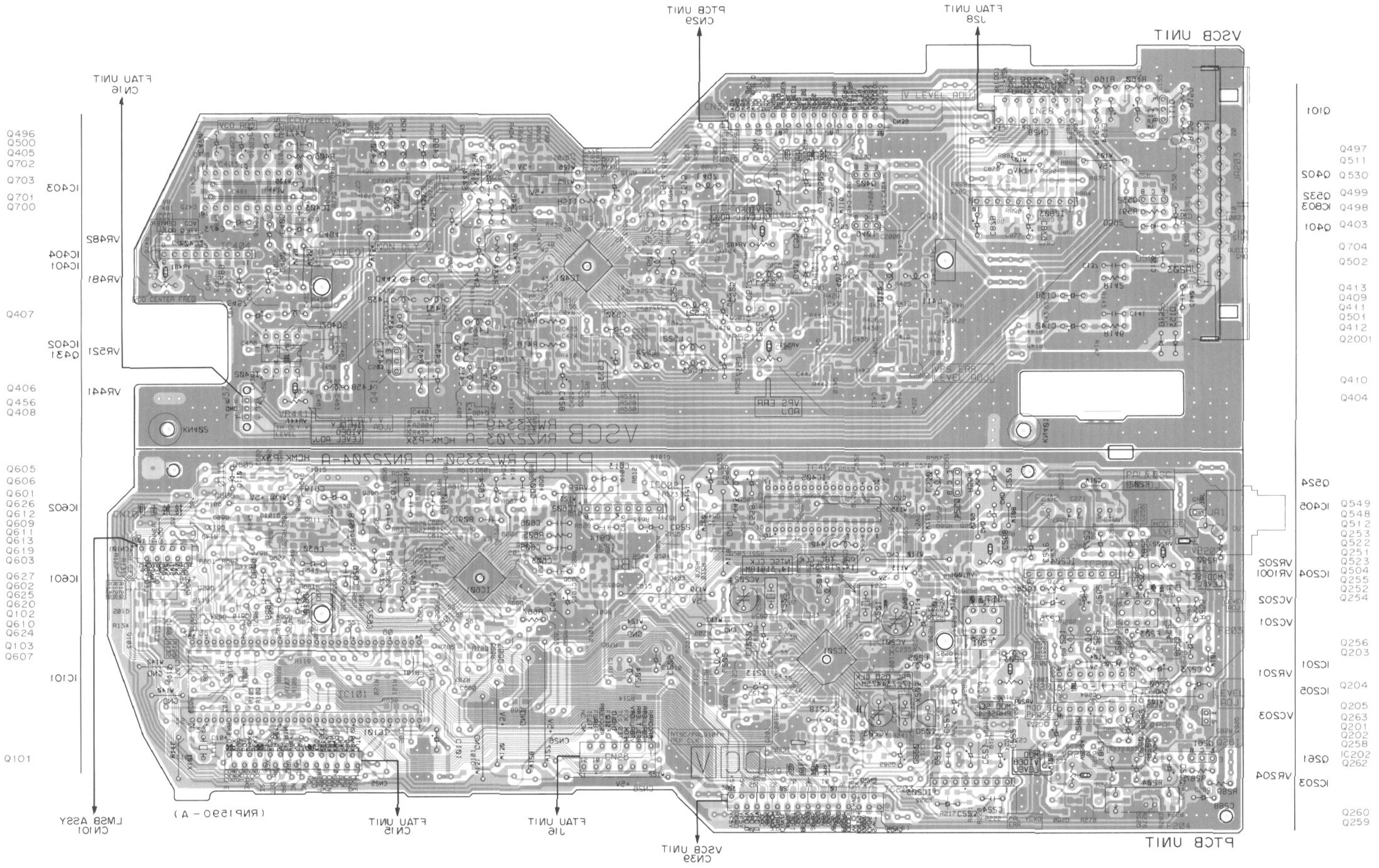
IC405 (M50552-132SP)

Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	9	–	17	0.8	25	–
2	5	10	5	18	–	26	–
3	5	11	0	19	0	27	–
4	2.4	12	1.1	20	0	28	2.3
5	2.4	13	1.1	21	–	29	2.3
6	0	14	–	22	–	30	–
7	5	15	1.8	23	–	31	–
8	0.4	16	0.6	24	–	32	–


VSCB UNIT
FTAU UNIT J28
PTCB UNIT CN29
FTAU UNIT CN16
Q101
Q402
Q532
IC803
Q401
IC403
VR482
IC404
IC401
VR481
IC402
VR521
Q431
VR441
VSCB RWZ3349-A RNZ2703-A HCMK-P3X
PTCB RWZ3350-A RNZ2704-A HCMK-P3X
VPS ERR ADJ
Q524
IC405
VR202
IC204
VR1001
VC202
VC201
IC201
VR201
IC205
VC203
Q261
IC203
VR204
IC602
IC601
IC101
PTCB UNIT
VSCB UNIT CN39
FTAU UNIT J16
FTAU UNIT CN15
(RNP1590 - A)
LMSB ASSY CN101

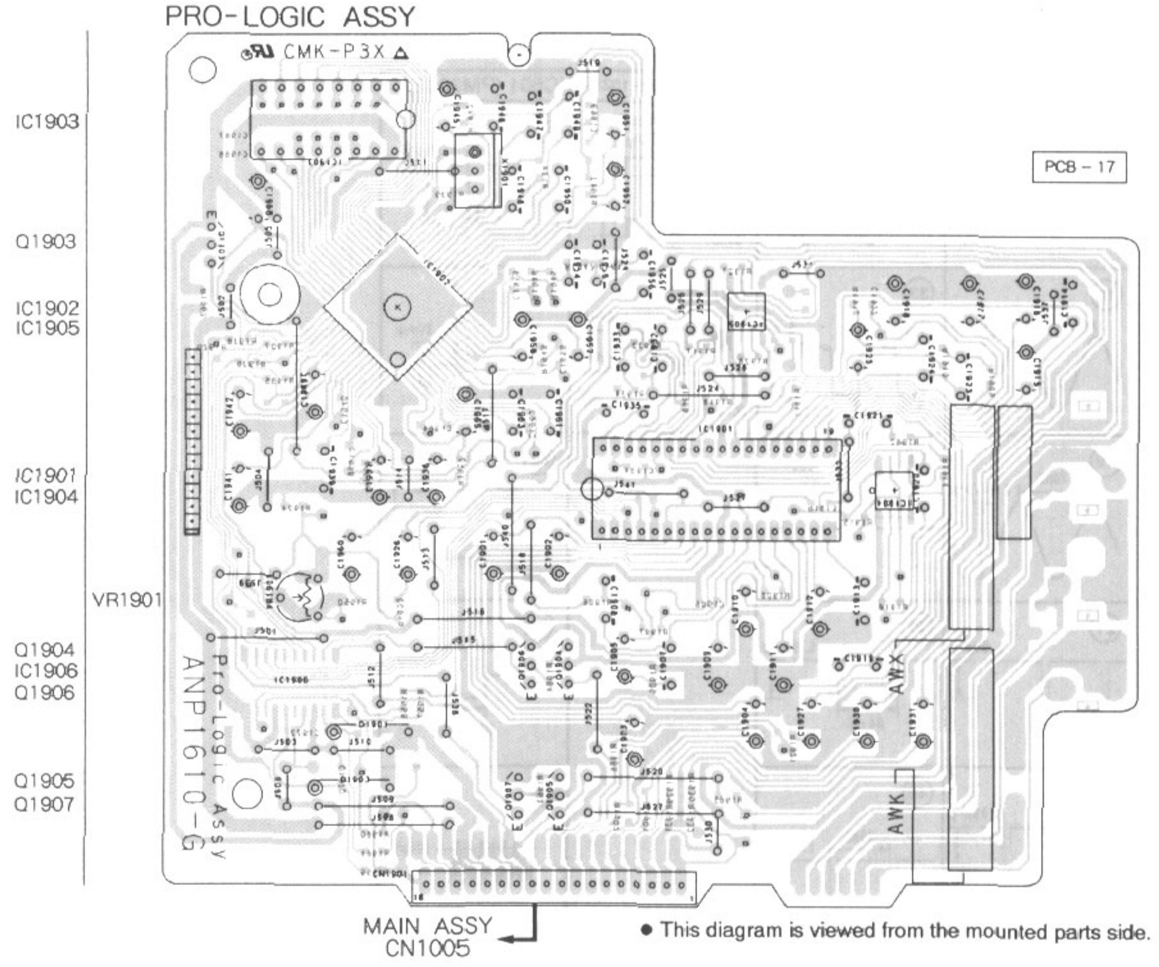
- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

- The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

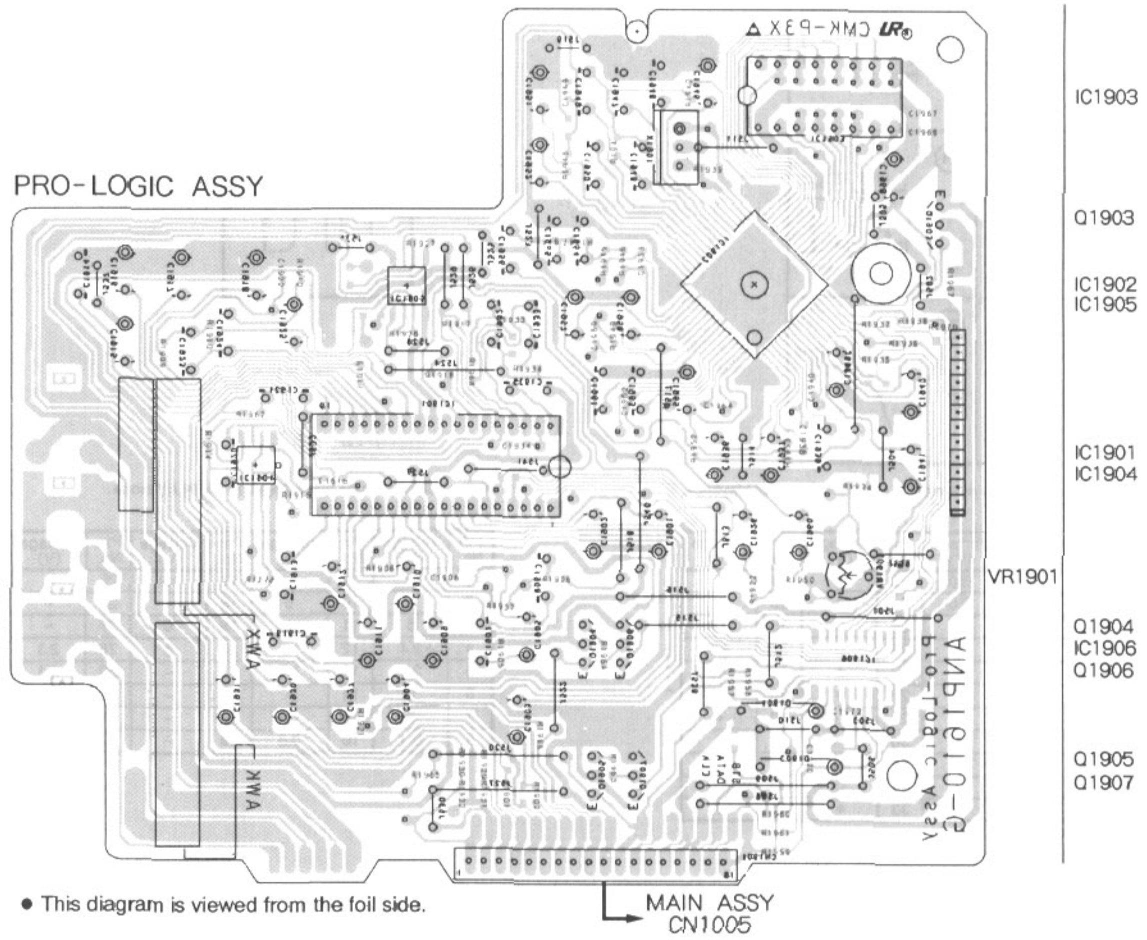

VSCB UNIT
PTCB UNIT
PTCB UNIT CN29
FTAU UNIT J28
FTAU UNIT CN16
LM58 ASSY CN101
FTAU UNIT CN15
FTAU UNIT J16
VSCB UNIT CN39
(A - ANP1590 - A)
Q496 Q500 Q405 Q702 Q703 Q701 Q700
IC403 VR482 IC404 IC401 VR481
Q407 IC402 Q431 VR521
Q406 Q456 Q408 VR441
Q605 Q606 Q601 Q626 Q612 Q609 Q611 Q613 Q619 Q603 IC602
Q627 Q602 Q625 Q620 Q102 Q610 Q624 Q103 Q607 IC601
IC101
Q101
Q402 Q532 IC803 Q401
Q497 Q511 Q530 Q499 Q498 Q403 Q704 Q502 Q413 Q409 Q411 Q501 Q412 Q2001 Q410 Q404
Q524 IC405 VR202 VR1001 IC204 VC202 VC101 IC201 VR201 IC205 VC203 Q261 VR204 IC203
Q549 Q548 Q512 Q253 Q522 Q251 Q523 Q504 Q255 Q252 Q254 Q256 Q203 Q204 Q205 Q263 Q201 Q202 Q258 IC202 Q262 Q260 Q259

- This diagram is viewed from the gray colored foil side.
- This PCB is double sided.

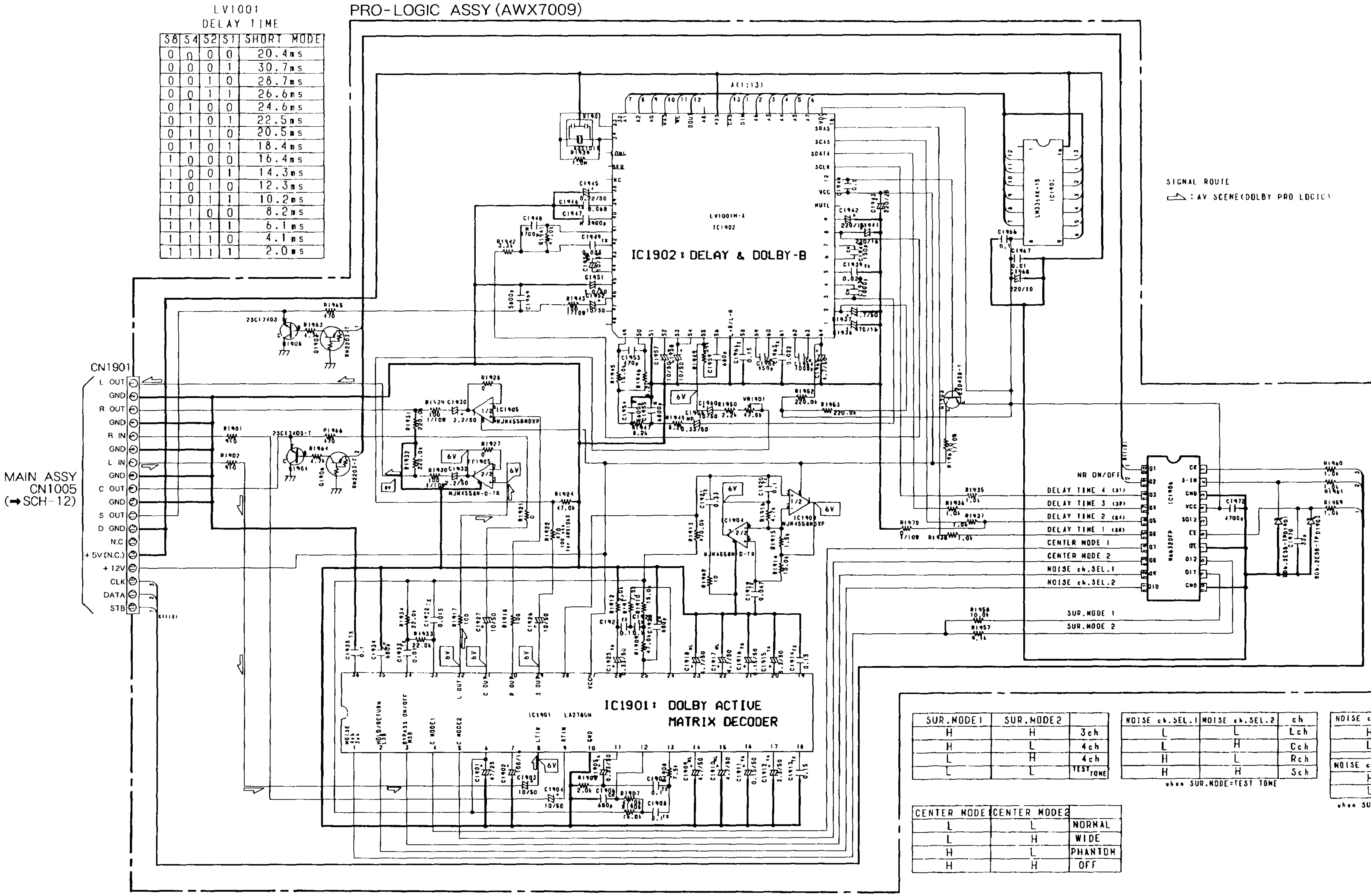
4.22 PRO-LOGIC ASSY (CL-J75LD ONLY)


PRO-LOGIC ASSY
CMK-P3X
PCB-17
IC1903
Q1903
IC1902
IC1905
IC1901
IC1904
VR1901
Q1904
IC1906
Q1906
Q1905
Q1907
Pro-Logic Assy
ANP1610-G
MAIN ASSY
CN1005

- This diagram is viewed from the mounted parts side.


PRO-LOGIC ASSY
CMK-P3X
IC1903
Q1903
IC1902
IC1905
IC1901
IC1904
VR1901
Q1904
IC1906
Q1906
Q1905
Q1907
Pro-Logic Assy
ANP1610-G
MAIN ASSY
CN1005

- This diagram is viewed from the foil side.


PRO-LOGIC ASSY (AWX7009)
CN1901
L OUT
GND
R OUT
GND
R IN
GND
L IN
GND
C OUT
GND
S OUT
D GND
N.C
+5V (N.C.)
+12V
CLK
DATA
STB
MAIN ASSY
CN1005
(→SCH-12)
IC1902: DELAY & DOLBY-B
LV1001M-1
IC1902
IC1901: DOLBY ACTIVE
MATRIX DECODER
IC1901 LA2780N
IC1905
NJM4558M-D-TR
IC1903
NJM4558M-D-TR
IC1904
IC1906
LM324
2SC1740S
2SC1740S-T
A(1:13)
SRAS
SCAS
SDATA
SCLK
VCC
MUTE
NR ON/OFF
DELAY TIME 4
DELAY TIME 3
DELAY TIME 2
DELAY TIME 1
CENTER MODE 1
CENTER MODE 2
NOISE ch.SEL.1
NOISE ch.SEL.2
SUR.MODE 1
SUR.MODE 2
CK
S-IN
GND
VCC
CE
L OUT
C OUT
R OUT
S OUT
VCC
GND
6V
SIGNAL ROUTE
: AV SCENE(DOLBY PRO LOGIC)

LV1001
DELAY TIME

S8	S4	S2	S1	SHORT MODE
0	0	0	0	20.4ms
0	0	0	1	30.7ms
0	0	1	0	28.7ms
0	0	1	1	26.6ms
0	1	0	0	24.6ms
0	1	0	1	22.5ms
0	1	1	0	20.5ms
0	1	0	1	18.4ms
1	0	0	0	16.4ms
1	0	0	1	14.3ms
1	0	1	0	12.3ms
1	0	1	1	10.2ms
1	1	0	0	8.2ms
1	1	1	1	6.1ms
1	1	1	0	4.1ms
1	1	1	1	2.0ms

SUR.MODE1	SUR.MODE2	
H	H	3ch
H	L	4ch
L	H	4ch
L	L	TEST TONE

NOISE ch.SEL.1	NOISE ch.SEL.2	ch
L	L	Lch
L	H	Cch
H	L	Rch
H	H	Sch

when SUR.MODE=TEST TONE

NOISE ch.SEL.1	
H	BYPASS OFF
L	BYPASS ON

NOISE ch.SEL.2	
H	RETURN
L	HOLD

when SUR.MODE=3ch or 4ch

CENTER MODE1	CENTER MODE2	
L	L	NORMAL
L	H	WIDE
H	L	PHANTOM
H	H	OFF

5. PCB PARTS LIST (For CL-J35LD/KU)

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10^1 → 561 .... RD1/8PM$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 × 10^3 → 473 .... RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 .... RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 .... RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω → 562 × 10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

LIST OF ASSEMBLIES

Mark	No. Description	Part No.
NSP	AF ASSY	RWM1833
	├─ MAIN ASSY	RWZ3619
	├─ VOL ASSY	RWZ3593
	├─ DECK ASSY	RWZ3577
NSP	└─ TRANS ASSY	RWZ3317
NSP	DISP ASSY	RWM1773
NSP	├─ PRIMARY ASSY	RWZ3377
	├─ U.COM ASSY	RWZ3376
NSP	├─ H.P. ASSY	RWZ3351
	├─ LD-FRONT ASSY	RWZ3344
	├─ SPDR UNIT	RWZ3359
	└─ MIC ASSY	RWZ3346
	MOTH UNIT	RWM1764
	├─ FTAU UNIT	RWZ3357
	└─ VIMC UNIT	RWZ3358
	FM/AM TUNER MODULE	AXQ1012
	POWER AMP. MODULE	AXQ7018
	├─ FRONT 50W ASSY	AWZ7517
	└─ REGULATOR ASSY	AWZ7560
NSP	MACB ASSY	VWM1507
NSP	├─ LMSB ASSY	VWG1554
NSP	├─ PKSB ASSY	VWG1555
NSP	└─ FG ASSY	VWG1556
	CARRIAGE ASSY	VWT1110
NSP	└─ HEAD ASSY	VWV1375

MAIN ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC1002, IC1014	BU4052BCF
	IC1001	BU4066BCF
⚠	IC1022, IC1023	ICP-N50
	IC1013	M66320FP
	IC1006	PM0006A
	IC1003, IC1005	UPC4570G2
	IC1015, IC1016	XRA4558F-P
	Q1027, Q1028	2PB709A
	Q1020, Q1021	2PD601A
	Q1011	2SA1515
⚠	Q1004	2SB560
	Q1024	2SC3327
	Q1007	2SC3377
⚠	Q1001	2SD438
	Q1014, Q1025	DTA124EK
	Q1008	DTA143EK
	Q1029	DTC124EK
	Q1012	DTC143EK
⚠	D1008, D1009, D1030, D1032, D1033	11ES2
	D1003, D1004, D1006, D1014, D1015	1SS254
	D1026-D1029	1SS254
⚠	D1010	D2SBA20(B)
⚠	D1012	D3SBA20(A)
	D1005	MTZJ10B
	D1007	MTZJ30B
	D1017	MTZJ5.1B
	D1016	MTZJ5.6B

CAPACITORS

Mark	No. Description	Part No.
	C1123	CCSQCH101J50
	C1098	CEANP100M50
	C1083	CEANP101M35
	C1112	CEANP101M6R3
	C1113	CEAS010M50
	C1020, C1021, C1025, C1027, C1028	CEAS100M50
	C1032	CEAS100M50
	C1127	CEAS101M10
	C1084	CEAS101M63
	C1088	CEAS102M35
	C1125	CEAS221M6R3
	C1087	CEAS332M35
	C1085	CEAS470M50
	C1128	CEJA101M10
	C1022, C1029, C1075, C1080	CKSQYB102K50
	C1124	CKSQYB103K50
	C1073, C1078	CKSQYB153K50
	C1076, C1081	CKSQYB471K50
	C1074, C1079	CKSQYB472K50
	C1019	CKSQYB562K50

Mark	No.	Description	Part No.
	C1030, C1031		CKSQYB683K25
	C1023, C1024		CKSQYB822K50
	C1015, C1016, C1094, C1095		CKSQYF103Z50
	C1026, C1033, C1034, C1096, C1097		CKSQYF104Z50
	C1115-C1118		CKSQYF104Z50
	C1072, C1077		CKSQYF473Z50
	C1091, C1092	(3300/50V)	RCH1129

RESISTORS

Mark	No.	Description	Part No.
	R1098		RD1/2PM103J
⚠	R1104		RD1/2PMF272J
⚠	R1178, R1179		RD1/4PM181J
	R1100		RD1/6PM472J
⚠	R1101, R1102		RFA1/4PS470J
⚠	R1103		RFA1/4PS4R7J
⚠	R1099, R1236		RS1LMF122J
⚠	R1195		RS2LMF181J
⚠	R1087, R1088		RS2LMFR22J
⚠	R1194		RS3LMF390J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

Mark	No.	Description	Part No.
		10P CABLE HOLDER	51052-1000
		16P CABLE HOLDER	51052-1600
		12P CABLE HOLDER	51063-1205
	CN1001	34P FFC CONNECTOR	9604S-34C
	CN1014	4P SPEAKER TERMINAL	RKE1005
	CN1012	6P JUMPER CONNECTOR	KPC6
	CN1017	15P JUMPER CONNECTOR	KPE15
	CN1009	8P JUMPER CONNECTOR	KPE8
	CN1015	3P PIN JACK	RKB1036
	CN1016	3P PIN JACK	RKB1037
	JA1001	REMOTE CONTROL JACK	RKN1004
	KN1001	EARTH METAL FITTING	VNF1084

VOL ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1801		TA8409S
	IC1802		UPC4570G2
	Q1801, Q1802		2SC3327
	Q1803		DTA124EK

COIL

Mark	No.	Description	Part No.
	L1801		LAU221J

CAPACITORS

Mark	No.	Description	Part No.
	C1819, C1820		CCSQCH470J50
	C1828		CEAS101M25
	C1807, C1808		CEAS470M25
	C1801-C1804		CEZA100M50
	C1805, C1806		CEZA2R2M50
	C1833, C1834		CKSQYB332K50
	C1809, C1810		CKSQYF104Z50
	C1831, C1832		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	VR1801		RCX1052
	Other Resistors		RS1/10S☐☐☐J

DECK ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC4202		BU4066BCF
	IC4421		CXA1101P
	IC4901		M66320FP
	IC4101		UPC4570G2
	IC4102, IC4301		XRA4558F-P
	Q4101, Q4102, Q4203-Q4206		2PD601A
	Q4301, Q4302, Q4305, Q4306, Q4355		2PD601A
	Q4451-Q4454		2PD601A
	Q4113, Q4352		2SA1515
	Q4356		2SC2240
	Q4401, Q4402		2SC3327
	Q4111, Q4161, Q4353, Q4354		2SC3377
	Q4307, Q4308		2SK373
	Q4112, Q4116, Q4117, Q4162, Q4303		DTA124EK
	Q4403		DTA124EK
	Q4208		DTA143EK
	Q4114, Q4155, Q4357		DTC124EK
	Q4207, Q4531		DTC143EK
	D4301, D4302		1SS226
	D4111, D4113-D4115, D4161		1SS254
	D4201, D4202, D4305, D4306		1SS254
	D4451-D4453, D4901-D4906		1SS254
	D4908, D4909		1SS254

COILS AND FILTERS

Mark	No.	Description	Part No.
	L4201, L4202, L4301, L4302		LTA392J
	L4303, L4304		LTA822J
	F4401, F4402		RTF1209

TRANSFORMER

Mark	No.	Description	Part No.
	T4351		ATX-043

CAPACITORS

Mark	No.	Description	Part No.
	C4361	(2000pF/630V)	ACE1020
	C4319, C4320		CCCSL271K500
	C4323, C4324		CCSQCH100D50
	C4902, C4904		CCSQCH101J50
	C4905		CCSQCH330J50
	C4113		CCSQCH560J50
	C4112, C4303, C4304, C4403, C4404		CEAS010M50
	C4451, C4452		CEAS010M50
	C4454		CEAS100M25
	C4359, C4360, C4364, C4405, C4407		CEAS100M50
	C4401, C4408		CEAS101M16
	C4365, C4366, C4453		CEAS220M16
	C4107, C4108		CEAS221M10
	C4903		CEAS221M6R3
	C4301, C4302, C4315, C4316		CEAS2R2M50
	C4103, C4104, C4309, C4310		CEAS330M16
	C4317, C4318		CEAS330M16
	C4357		CEAS3R3M50
	C4116		CEAS470M10
	C4351		CEAS470M16
	C4207, C4208		CEAS4R7M50
	C4402, C4406		CEASR68M50
	C4363		CKCYB222K500
	C4117		CKSQYB103K50
	C4313, C4314		CKSQYB122K50

Mark	No.	Description	Part No.
	C4353		CKSQYB221K50
	C4305, C4306		CKSQYB273K50
	C4307, C4308		CKSQYB333K50
	C4101, C4102		CKSQYB471K50
	C4151, C4152, C4209, C4210		CKSQYB561K50
	C4321, C4322, C4355		CKSQYB681K50
	C4109, C4110		CKSQYB821K50
	C4352, C4354		CKSQYF103Z50
	C4114		CKSQYF104Z50
	C4111, C4901		CKSQYF473Z50
	C4455, C4456		CQMA103J50
	C4358		CQMA123K250
	C4356		CQMA153J50
	C4362		CQMA562K400
	C4105, C4106		CQMA682J50
	C4311, C4312		CQMA823J50

RESISTORS

Mark	No.	Description	Part No.
	R4353		RD1/2PM820J
	R4401, R4402		RD1/6PM102J
	R4906, R4907		RD1/6PM301J
	R4357		RD1/6PM6R8J
	VR4201-VR4204	(22kΩ)	RCP1103
	VR4111	(3.3kΩ)	RCP1138
	VR4301, VR4302	(4.7kΩ)	RCP1139
	VR4351, VR4352	(220kΩ)	RCP1142
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		9P CABLE HOLDER	51063-0905
		14P CABLE HOLDER	51063-1405
		15P CABLE HOLDER	51063-1505
	CN4006, CN4007	KR CONNECTOR	B2B-PH-K-S
	CN4003	3P TOP POST	B3B-EH-R
	CN4002	5P TOP POST	B5B-EH
	CN4004	15P JUMPER CONNECTOR	KPE15

TRANS ASSY

OTHERS

Mark	No.	Description	Part No.
		16P CABLE HOLDER	51052-1600
	CN1751	12P JUMPER CONNECTOR	KPE12
	H1751-H1754	FUSE HOLDER	VKR1001

PRIMARY ASSY

COIL

Mark	No.	Description	Part No.
⚠	L1771		ATF-151

CAPACITOR

Mark	No.	Description	Part No.
⚠	C1771	(0.01μF/400V)	RCG-009

RESISTOR

Mark	No.	Description	Part No.
⚠	R1771	(2.2MΩ, 1/2W)	ACN-208

OTHERS

Mark	No.	Description	Part No.
	H1771, H1772	FUSE HOLDER	VKR1001

U.COM ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1302		M66311FP
	IC1301		PDG149A
	Q1301, Q1309		2PD601A
	Q1308		DTA143EK
	Q1302-Q1304		DTC143EK
	D1301-D1304, D1306-D1311, D1318		1SS254
	D1341, D1342, D1344, D1346		1SS254
	D1348-D1350		1SS254
	D1337		AEL1065
	D1336		MTZJ6.2B
	D1328-D1335		SEL2415ETP2
	D1320-D1327, D1338		SEL2815ATP2

COIL

Mark	No.	Description	Part No.
	L1301		LAU220J

SWITCHES

Mark	No.	Description	Part No.
	S1301-S1311, S1313-S1326		RSG1034

CAPACITORS

Mark	No.	Description	Part No.
	C1306		ACH1246
	C1313		CCDCH101J50
	C1301, C1305		CCSQCH101J50
	C1303, C1304		CEJA010M50
	C1309		CEJA100M50
	C1308		CEJA221M6R3
	C1316		CEJA330M50
	C1314, C1315		CEJA331M6R3
	C1302		CEJA470M16
	C1310		CKSQYF104Z50
	C1307		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	R1366		RA15T104J
	R1409		RD1/6PM104J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		15P CABLE HOLDER	51063-1505
	CN1302	14P FFC CONNECTOR	9604S-14C
	CN1301	34P FFC CONNECTOR	9604S-34C
	X1302	CERAMIC RESONATOR	EFOEC1005T4
		REMOTE RECEIVER UNIT	GP1U27X
	V1301	FL TUBE	RAW1138

H.P. ASSY

CAPACITORS

Mark	No.	Description	Part No.
	C1701, C1702		CKSQYF103Z50

RESISTORS

Mark	No.	Description	Part No.
⚠	R1701, R1702		RS2LMF331J

OTHERS

Mark	No.	Description	Part No.
		6P CABLE HOLDER	51052-0600
	CN1701	MINI JACK	AKN1028

LD–FRONT ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
	IC2101		UPC4570G2

SWITCH

Mark	No.	Description	Part No.
	S2103		RSG1034

CAPACITORS

Mark	No.	Description	Part No.
	C2102		CCSQCH330J50
	C2131		CCSQCH470J50
	C2132		CCSQSL471J50
	C2103		CEAS101M10
	C2130		CKSQYB331K50
	C2133, C2134		CKSQYF223Z50

RESISTORS

Mark	No.	Description	Part No.
	VR2102		ACS1101
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		8P CABLE HOLDER	51063-0805
		13P CABLE HOLDER	51063-1305
	CN2103	14P FFC CONNECTOR	9604S-14C
	CN2101	8P PLUG	KM200IA8

SPDR UNIT

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC3, IC4, IC7		ICP-N15
⚠	IC6		ICP-N20
	IC2		NJM4558D
	Q22, Q23, Q5		2SA933S
⚠	Q2, Q25, Q27		2SB1566
	Q21, Q24, Q4		2SC1740S
⚠	Q26, Q28, Q3		2SD2395
	Q8		DTC124ES
⚠	D23, D26		10ELS2
⚠	D24, D25		11ES2
⚠	D1		S2VB20

COIL

Mark	No.	Description	Part No.
⚠	L1		RTL1001

CAPACITORS

Mark	No.	Description	Part No.
	C29		CEAS101M50
	C25, C26		CEAS2R2M50
	C4-C6		CEAS470M10
	C27, C28		CGCYX223K25
	C23, C24		CGCYX223M25
	C18, C19		CKCYF103Z50
	C11, C12		CKPUYF103Z25
⚠	C1, C2	(6800pF/16V)	VCH1060

RESISTORS

Mark	No.	Description	Part No.
⚠	R27-R30	(47Ω)	DCN1003
⚠	R23-R26		RD1/2VM221J
	R34		RS1LMFR33J
	Other Resistors		RD1/6PM□□□J

OTHERS

Mark	No.	Description	Part No.
		12P CABLE HOLDER	51063-1205
	CN3	19P FFC CONNECTOR	9604S-19C
	CN2	KR CONNECTOR	B2B-PH-K-S
	J6	2mm PITCH JUMPER WIRE 3P	D20PWW0305E
⚠	FU3, FU4	FUSE(150°C/2A)	REK1074
		PCB BINDER	VEF1040
	KN1	EARTH METAL FITTING	VNF1084

MIC ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
	IC1601		UPC4570G2

CAPACITORS

Mark	No.	Description	Part No.
	C1610		CEAS010M50
	C1606		CEAS4R7M50
	C1608		CKSQYB182K50
	C1602		CKSQYB222K50
	C1604, C1611-C1613		CKSQYF104Z50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	HJ1602	PHONE JACK(MIC)	AKN1019
	CN1601	8P SOCKET	KP200IA8L

FTAU UNIT

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC202, IC903, IC905		BA4560F
	IC351		CA0002AM
	IC802		LC78681KE
	IC801		PAC002A
	IC901		PAC003A
	IC902		TA8410AK
	IC201		TC9276P
	Q916		2PB709A
	Q201, Q202, Q805, Q840		2PD601A
	Q903, Q904, Q907-Q909, Q915		2PD601A
	Q917		2PD601A
	Q914		2SA1037K
	Q834		2SA854S
	Q912		2SC2412K
	Q152, Q803		2SC3802K
	Q204, Q205		2SD2144S
	Q208-Q210		UN2112
	Q207, Q901, Q910		UN2212
	D180, D801, D901, D902, D905		1SS254
	D963		1SS254
	D201		KV1851

COILS

Mark	No.	Description	Part No.
	L206, L207, L351, L802-L804		LAU181J
	L202, L205, L352		LAU220J
	L805		LAU2R2J

CAPACITORS

Mark	No.	Description	Part No.
	C809, C811		CCSQCH070D50
	C159, C311		CCSQCH100D50
	C370, C810, C846, C848, C891		CCSQCH101J50
	C944		CCSQCH101J50
	C161, C232, C353, C812		CCSQCH151J50
	C352		CCSQCH180J50
	C813, C950		CCSQCH220J50
	C162, C935		CCSQCH221J50
	C371, C931		CCSQCH270J50
	C354		CCSQCH330J50
	C220, C351		CCSQCH390J50
	C260-C263		CCSQCH470J50
	C258, C259, C375, C806		CCSQCH680J50
	C374, C814		CCSQCH820J50
	C871		CEANP100M16
	C972		CEANP220M10
	C838		CEANP470M6R3
	C227, C281, C904		CEAS010M50
	C274, C275, C367, C917		CEAS100M50
	C364		CEAS101M10
	C252, C253		CEAS101M6R3
	C922, C987		CEAS220M25
	C845, C902, C926		CEAS2R2M50
	C255		CEAS331M6R3
	C270, C271, C363, C369, C801		CEAS470M10
	C803, C833, C836, C842, C844		CEAS470M10
	C893, C927, C933, C974, C975		CEAS470M10
	C850, C870		CEAS4R7M50
	C368, C913, C943		CEASR47M50
	C967, C968		CEHAQ220M16
	C907, C914, C936		CKSQYB102K50
	C213, C235-C237, C251, C256		CKSQYB332K50
	C278, C282, C919		CKSQYB332K50
	C361, C362		CKSQYB392K50
	C355-C358, C377, C909		CKSQYB472K50
	C105, C214, C231, C234, C286		CKSQYF103Z50
	C372, C373, C376, C802, C804		CKSQYF103Z50
	C807, C831, C832, C834, C835		CKSQYF103Z50
	C843, C872, C892, C894, C897		CKSQYF103Z50
	C918, C928, C929, C932		CKSQYF103Z50
	C937-C939, C941, C961, C962		CKSQYF103Z50
	C964, C971, C982		CKSQYF103Z50
	C151, C365, C366, C840, C841		CKSQYF104Z25
	C847, C910-C912, C915, C940		CKSQYF104Z25
	C981, C983		CKSQYF104Z25
	C837, C921, C930		CKSQYF223Z50
	C359, C360, C905, C951, C999		CKSQYF224Z25
	C254, C305, C387, C808, C815		CKSQYF473Z25
	C924, C925		CKSQYF473Z25
	C942		CQMA103J50
	C920		CQMA104J50
	C908		CQMA154J50
	C903		CQMA222J50
	C934		CQMA681J50
	C923		CQMA683J50

RESISTORS

Mark	No.	Description	Part No.
	R831, R832		RD1/6PM1R8J
	R987, R989		RN1/10SE103D
	R986, R990		RN1/10SE333D
	VR612	(47kΩ)	RCP1047
	VR604, VR607	(47kΩ)	RCP1104
	VR603	(4.7kΩ)	RCP1139
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		12P CABLE HOLDER	51063-1205
		14P CABLE HOLDER	51063-1405
	CN103	23P FFC CONNECTOR	52233-2310
	CN13	19P FFC CONNECTOR	9604S-19C
	CN15	26P FFC CONNECTOR	9604S-26C
	CN106	11PIN SIDE POST	BS11P-SHF-1AA
	CN14	13P JUMPER CONNECTOR	KPE13
	KN801	EARTH METAL FITTING	VNF1084
	X201	CRYSTAL RESONATOR(16MHz)	VSS1049

VIMC UNIT

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC803		LA6510L
	IC400		PAC005B
	IC500		PD0192A
	IC101		PD0196C
	IC603		PD9004A
	IC501		TC7S04F
	Q102, Q501		2PB709A
	Q411, Q451, Q475, Q611-Q613		2PD601A
	Q103		UN2212
	D110		MTZJ5.1B

COILS AND FILTER

Mark	No.	Description	Part No.
	L413		LAU100J
	L410		LAU101J
	L412, L461, L470		LAU220J
	L411, L571, L590, L591		LAU270J
	L420, L421, L580		LAU430J
	L462		LAU560J
	L414		LAU8R2J
	L460		LFA561J
	F501		VTF1055

CAPACITORS

Mark	No.	Description	Part No.
	C540		CCSQCH030C50
	C562		CCSQCH050C50
	C436, C617		CCSQCH070D50
	C420, C421, C438, C466, C583		CCSQCH100D50
	C620		CCSQCH100D50
	C393, C398		CCSQCH101J50
	C437, C474		CCSQCH120J50
	C416		CCSQCH121J50
	C415, C418, C434, C475, C594		CCSQCH150J50
	C552, C618		CCSQCH180J50

Mark	No.	Description	Part No.
	C579		CCSQCH220J50
	C417, C591		CCSQCH221J50
	C419, C433, C467		CCSQCH270J50
	C106, C107, C435, C452, C553		CCSQCH330J50
	C563-C566, C580		CCSQCH330J50
	C425, C476, C598		CCSQCH390J50
	C464, C468, C596		CCSQCH470J50
	C561		CCSQCH680J50
	C460, C462		CCSQCH910J50
	C450		CEANP470M6R3
	C439		CEAS100M50
	C491		CEAS101M10
	C424		CEAS101M6R3
	C878, C879		CEAS330M16
	C101, C412, C493, C530, C534		CEAS470M10
	C550, C572, C588, C611, C613		CEAS470M10
	C490		CKSQYB102K50
	C110, C160, C196-C198, C413		CKSQYF103Z50
	C451, C454, C485, C531-C533		CKSQYF103Z50
	C539, C570, C571, C577, C578		CKSQYF103Z50
	C581, C589, C612, C614, C641		CKSQYF103Z50
	C876, C888		CKSQYF103Z50
	C102, C103, C411, C422, C423		CKSQYF104Z25
	C453, C457, C458, C492, C494		CKSQYF104Z25
	C551, C574, C582, C587, C592		CKSQYF104Z25
	C873, C874		CKSQYF104Z25
	C465, C875, C877		CKSQYF473Z25
	C479		CQMA124J50
	C483		CQMA154J50
	VC901	(20p)	VCM-008

RESISTORS

Mark	No.	Description	Part No.
	R521		RD1/6PM100J
	R420		RD1/6PM470J
	R490		RN1/10SE103D
	VR450	(2.2kΩ)	RCP1019
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		10P CABLE HOLDER	51063-1005
		12P CABLE HOLDER	51063-1205
	CN101	10P FFC CONNECTOR	9604S-10C
	CN25	26P FFC CONNECTOR	9604S-26C
	JA16	1P PIN JACK	RKB1038
	KN101, KN601	EARTH METAL FITTING	VNF1084
	X101	CERAMIC RESONATOR	VSS1040
	X550	CRYSTAL RESONATOR	VSS1073

FM/AM TUNER MODULE

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101, D6102		1T33

COILS AND FILTERS

Mark	No.	Description	Part No.
	L6104		ATC1003
	L6101		ATC1020
	L6102		ATC1021
	T6101		ATE-063
	L6207		ATE1013
	F6203, F6204		ATF-119
	F6101		ATF-155
	F6202		ATF1155
	L6103		ATH1043
	L6202, L6203, L6208		LCTA2R2J3225

CAPACITORS

Mark	No.	Description	Part No.
	C6202, C6234, C6236	(1μF)	ACG1051
	C6107		CCSCH010C50
	C6229		CCSCH821J50
	C6110		CCSQCH020C50
	C6101		CCSQCH050C50
	C6108, C6203, C6268		CCSQCH101J50
	C6111, C6116, C6208, C6221, C6222		CCSQCH150J50
	C6115		CCSQCH330J50
	C6114		CCSQRH080D50
	C6113		CCSQRH180J50
	C6105		CCSQTH150J50
	C6261		CEAS010M50
	C6224, C6246, C6262		CEAS100M50
	C6216, C6217		CEAS330M16
	C6231, C6233		CEAS3R3M50
	C6219		CEAS470M10
	C6243-C6245		CEAS470M16
	C6227		CEAS470M25
	C6238		CEJA100M16
	C6249, C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6103, C6106, C6112, C6204		CKSQYB102K50
	C6102, C6109, C6117, C6210, C6264		CKSQYB103K50
	C6213		CKSQYB223K50
	C6230		CKSQYB333K50
	C6228, C6252		CKSQYB472K50
	C6209, C6237, C6265, C6267		CKSQYB473K50
	C6212, C6218		CKSQYF103Z50
	C6220, C6226, C6239, C6242, C6255		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225, C6241, C6266		CKSQYF473Z50
	C6232		CKSYB333K50
	C6251		CKSYB472K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50

Mark	No.	Description	Part No.

RESISTORS

	R6299, R6300		RD1/8PM102J
	R6113, R6116, R6118, R6268-R6271		RS1/8S000J
	R6275, R6276, R6278, R6283, R6284		RS1/8S000J
	R6290, R6293, R6294, R6297		RS1/8S000J
	R6243, R6244		RS1/8S101J
	R6211		RS1/8S103J
	R6237		RS1/8S182J
	R6209		RS1/8S221J
	R6239		RS1/8S332J
	R6101		RS1/8S470J
	VR6201	(10kΩ)	ACP1056
	VR6202		VRTB6VS223
	Other Resistors		RS1/10S□□□J

OTHERS

	BN6201	4P ANTENNA TERMINAL	AKA1016
	X6203	CRYSTAL RESONATOR	ASS1042
	X6201	CERAMIC RESONATOR	ASS1066
	X6202	CERAMIC RESONATOR	ATF1027
	AM RF TUNING BLOCK		AXX1041

FRONT 50W ASSY

SEMICONDUCTORS

	IC7501		UPC4570G2
	Q7507, Q7508		2SA1182
	Q7601		2SA1255
	Q7517, Q7518		2SB1115
	Q7501, Q7502		2SC2240
	Q7505, Q7506		2SC2859
	Q7602, Q7603		2SC3138
	Q7515, Q7516		2SD1615
	D7505, D7506, D7517, D7518		1SS181
	D7503, D7504, D7516		1SS184
	D7535-D7538		1SS226
	D7521-D7524		1SS244
	D7519, D7520, D7525, D7526, D7531		HSS104-02
	D7533		HSS104-02
	D7507-D7510		RD3.3ESB2

CAPACITORS

	C7519-C7522, C7545-C7552		CCSQCH101J50
	C7525-C7528		CCSQCH271J50
	C7503, C7504		CCSQCH331J50
	C7541, C7542		CCSQCH470J50
	C7523, C7524		CEALR10M50
	C7509, C7510		CEAS101M10
	C7602		CEJA221M6R3
	C7540		CEJA3R3M50
	C7539		CEJA4R7M50
	C7699		CKSQYB104K25
	C7529-C7532		CKSQYB333K50
	C7543, C7544		CKSQYB472K50
	C7601, C7603		CKSQYF104Z50
	C7537		CKSQYF473Z50

Mark	No.	Description	Part No.

RESISTORS

	R7519, R7520		ACN1106
	R7515, R7516		ACN1107
⚠	R7541, R7542		RD1/4PMF100J
⚠	R7547-R7550		RS1/10S2200F
	R7753		RS1/8S000J
⚠	R7537-R7540		RS1/8S100J
	R7553		RS1/8S101J
⚠	R7543, R7544		RS1/8S7R5J
	Other Resistors		RS1/10S□□□J

REGULATOR ASSY

SEMICONDUCTORS

	IC7201		PAC006B
	Q7301, Q7302		2SC1815
	Q7202		2SC2712
	D7204		1SS184
	D7205, D7208		HSS104-02
	D7210		RB441Q-40
	D7206, D7211		RD4.7ESB
	D7207		RD5.6ESB2

CAPACITORS

	C7402, C7406, C7408	(0.082μF)	ACG1050
	C7204	(1μF/16V)	ACG1051
	C7401, C7405, C7407	(0.33μF)	ACG1053
	C7409	(10μF/35V)	ACH1150
	C7202	(4.7μF/35V)	ACH7008
	C7203	(0.33μF/50V)	ACH7009
	C7140		CEAS010M50
	C7205		CEJA101M10
	C7201, C7208, C7219		CKSQYB103K50
	C7301		CKSQYB332K50
	C7206, C7215, C7216, C7404, C7698		CKSQYF104Z50

RESISTORS

	VR7201	(22kΩ)	RCP1103
⚠	R7403-R7405	(1Ω)	ACN1104
	R7252		RD1/6PM102J
	R7253		RD1/6PM103J
	R7303		RS1/10S1002F
	R7304		RS1/10S8200F
	Other Resistors		RS1/10S□□□J

OTHERS

	CN7101	12P JUMPER CONNECTOR	KPE12

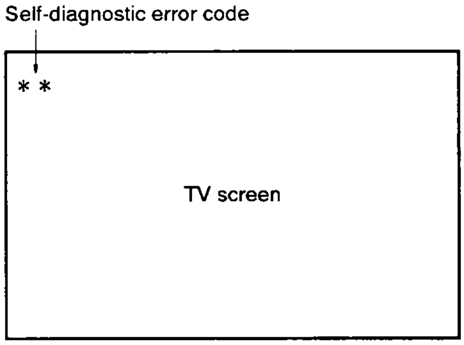
Mark	No.	Description	Part No.
LMSB ASSY			
SWITCHES			
	S101-S103		DSG1017
OTHERS			
	CN101	10P FFC CONNECTOR	52044-1045
PKSB ASSY			
SWITCHES			
	S104, S105		DSG1017
FG ASSY			
SEMICONDUCTOR			
	D101		GP1S24
HEAD ASSY			
SEMICONDUCTOR			
	Q101		2SC4081
CAPACITORS			
	C101		CKSQYF473Z25
	C102		CKSQYF105Z16
RESISTORS			
	VR101		VCP1069
	Other resistors		RS1/10S☐☐☐J
OTHERS			
	CN101	CONNECTOR	SFW23R-1ST
		TAPE	Z11-121

6. SELF-DIAGNOSTIC FUNCTIONS

6.1 SELF-DIAGNOSTIC FUNCTIONS

The self-diagnostic functions automatically display an error code on the TV screen and front panel fluorescent display section when there is an error. The customer checks the error code and conveys it to the service personnel to make repairs more efficient.

After an error occurs, even if the error code goes off, you can display the error code again by holding down the CLEAR key for 10 seconds (except a loading error L * display). However, if the power cord is unplugged, the error code information is lost.



This table explains the information for analyzing the cause when an error occurs with the CLD player.

Self-diagnostic error code	Contents	Conditions	Probable cause
H0	Spindle overcurrent detection error.	In the play state, overcurrent was detected in the spindle motor. Monitoring starts 5 seconds after the start of play or special playback mode, this error is detected if the overcurrent port is "L" for 4 seconds.	•Motor NG •Clamper rubbing
U0	FG abnormality error	①At LD start-up, the rate of rotation calculated from the FG was less than 15 rpm for 5 consecutive seconds from the spindle run command. ②At CD start-up, there was less than 1/8th rotation even after 5 seconds had passed since the end of acceleration. ③During play search, CD : subcodes are being read/LD : Phillips codes are being read and the spindle is locked, but a state in which the rate of rotation calculated from the FG was less than 15 rpm continued for 5 seconds or more. In the above case, it is judged that an abnormality has occurred in the FG sensor and that accurate rotation rate calculation has become impossible.	•FG sensor abnormality, FG signal not coming to mechanism controller •FG sensor clogged •Rubbing between FG sensor and slit •Turntable dropped •FG slit deposition NG
H1	Partial short error	①At LD start-up, the speed did not reach 1200 rpm within a certain time (12 seconds) after the spindle run command. ②At CD start-up, a certain speed (313 rpm) was not reached within 6 seconds from the end of spindle acceleration.	•Spindle motor NG •Commutator NG •Bearing too tight •Power supply NG
H2	Power supply abnormality error	– 5V power supply abnormality detected. The power supply abnormality port is constantly monitored and if its signal stays high for about 1 second consecutively, the power supply is judged to be abnormal.	•– 5V not fed from SPDR unit •Parts shorted
L *	Loading error	①When loading operation goes over time (approx. 10 sec.). ②When assist at disc sense entry ends and is not tilt neutral. ③When assist at set up entry ends and is not tilt neutral.	•Tilt switch 1, 2, 3 abnormal, so tilt/loading state not read in correctly •Tilt/loading mechanism mechanically locked •Drive IC NG •Power supply NG

Self-diagnostic error code	Contents	Conditions	Probable cause
E ∗	Slider error	During slider movement, a time over run occurred (track count search 20 seconds, mandatory movement 10 seconds)	•Slider ceased being able to run •The slider mechanism is mechanically locked and can no longer move to its target. •Slider position switch NG •Flexible cable pulled out •Drive IC NG •Power supply abnormal
U1	Mis clamp error	① During LD setup, after 1/8th rotation, the track count during 1/8 rotation exceeded 511. ② During start-up, the focus was lost once and refocusing was attempted, but the focus could not be locked. ③ When the spindle motor rotation is stopped once before CDV A ←→ V area change, but stop is not carried out within 2.0 seconds, it is determined that there are two discs on each other and clamp error is set. ④ Two FG pulses did not come within 800 ms from the start of LD start-up. ⑤ During CD start-up, it took more than 860 ms to reach 416 rpm (CD+LD both mounted detected). ⑥ The disc clamp operation did not end within 5 seconds.	•Disc sandwiched •Disc shifted •Spindle motor NG •Disc scratched or dirty defocused during start-up •Two discs loaded •PU actuator NG •Tilt sensor NG •Tilt neutral NG (tilt base NG)
P ∗	Spindle error	① During TOC reading with an LD, the spindle servo was not locked within 60 seconds from the start of the spindle run. ② When CAV/CLV determination is not finished within 60 seconds from spindle servo lock. ③ The codes could not be read for 10 – 15 seconds consecutively for an LD or 7 – 10 seconds for a CD/CDV and the spindle servo was not locked. ④ The speed exceeded 2100 rpm during LD start-up.	P0:•PH code, SUB-Q code can not be read •VCO, PLL offset out of adjustment •Disc defect P5:•PAL disc, mirror disc, etc. PLAY •No RF P6:•Spindle servo does not lock •Spindle motor NG
F ∗	Focus error	① "In the "no disc" state, a setup command was received from the mode controller. ② When LD is out of focus when slider is moved to starting position during set up. In case of CD/CDV is NG even after three focus tries. ③ During start-up, the maximum slider servo duty continued for 3 loops or more.	F5:•CD, LD on top of each other •LD scratched or dirty defocused during slider movement •DISC NG •Slider position switch NG F6:•Inner edge of disc scratched or dirty •Slider ran into inner edge mechanical stopper

※ Besides the above errors, there is the "U2" communications error (the mode controller could not communicate normally with the mechanism controller).
※ The probable cause is a defective mechanism controller, disconnected cable, etc..
Mechanism mode contents (meanig of ∗ for L ∗ etc.)
0 : Play
1 : Open
2 : Standby
3 : Clamp
4 : Disc sense
5 : Setup (rotation start)
6 : TOC read
7 : Play
8 : Search

※ 0 : Normal playing
7 : Moving to play operation

Note:

- When checking the player to the horizontally during playing the disc, be careful not to damage the disc and the pickup because of disc is rolled.

7. ADJUSTMENTS

7.1 FM/AM TUNER MODULE SECTION

1. FM TUNER SECTION

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 7 - 1

• For AXQ1012 (KU, SD, SD/HO and SL types) and AXQ1013 (HE, HE/FR and HB types)

Step No.	Adjustment title	FM SG (1kHz, ± 75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB µ V)			
1	Center Adjustment	98 Non modulation	80 or more	98MHz	L6207	Adjust so that the DC voltage between Pin 4 and Pin 28 of IC6201 (or + leads of C6224 and C6261) becomes 0V ± 50mV.
2	Front End Sensitivity	98	0-30	98MHz	L6102 T6101	Adjust so that the DC voltage between the Pin 12 of IC6201 and GND (or + leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 ± 2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Note :
- Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM → FM.

• For AXQ1016 (S/DF type)

Step No.	Adjustment title	FM SG (1kHz, ± 75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB µ V)			
1	Center Adjustment	83 Non modulation	80 or more	83MHz	L109	Adjust so that the DC voltage between Pin 4 and Pin 28 of IC6101 becomes 0V ± 50mV. (Both ends of R6141)
2	Front End Sensitivity	83	0-30	83MHz	L6104 L6102 T6101	Adjust so that the DC voltage of the Pin 12 of IC6101 (S-meter) becomes at maximum level.
3	TUNED IND. Lighting Level	83	15 ± 2	83MHz	VR6101	Adjust so that the indicator of TUNED IND. starts to light up.

Note :
- Before adjusting, make sure there is no gap between L6101 and L6102 and between L6103 and L6104. If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM → FM.

- **For AXQ1014 (HEZI/DI type)**

Step No.	Adjustment title	FM SG (1kHz, ± 75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB µ V)			
1	Center Adjustment	98 Non modulation	80 or more	98MHz	L6207	Adjust so that the DC voltage between Pin 4 and Pin 28 of IC6201 (or + leads of C6224 and C6261) becomes 0V ± 50mV.
2	Front End Sensitivity	106	0-30	106MHz	L6104 L6105 L6102 T6101	After adjusting L6104 and L6105 so that the DC voltage between Pin 12 of IC6201 and GND (or + leads of C6238 and GND) becomes at maximum level, adjust T6101 and L6102.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 ± 2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Note :
- Before adjusting, make sure there is no gap between L6101 and L6102 and between L6103 and L6104.
  If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM → FM.
- Adjustment sequence : L6104 → L6105 → L6102 → T6101

2. AM TUNER SECTION

- Set the mode selector to AM BAND.
- Connect the wiring as shown in Fig. 7 - 1

- **For AXQ1012 (KU, SD, SD/HO and SL types) and AXQ1013 (HE, HE/FR and HB types) and AXQ1014 (HEZI/DI type)**

Step No.	Adjustment title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dB µ V/m)			
1	TUNED IND. Lighting Level	* 1 999	47 ± 2	* 1 999kHZ	VR6202	Adjust so that the indicator of TUNED IND. starts to light up.

Note :
- When AXQ1012 is used, set the AM frequency step to 10kHz.
  * 1 : For the area using 10kHz step, frequencies should be 1000kHz.

- **For AXQ1016 (S/DF type)**

Step No.	Adjustment title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dB µ V/m)			
1	TUNED IND. Lighting Level	999	47 ± 2	999kHZ	VR6102	Adjust so that the indicator of TUNED IND. starts to light up.

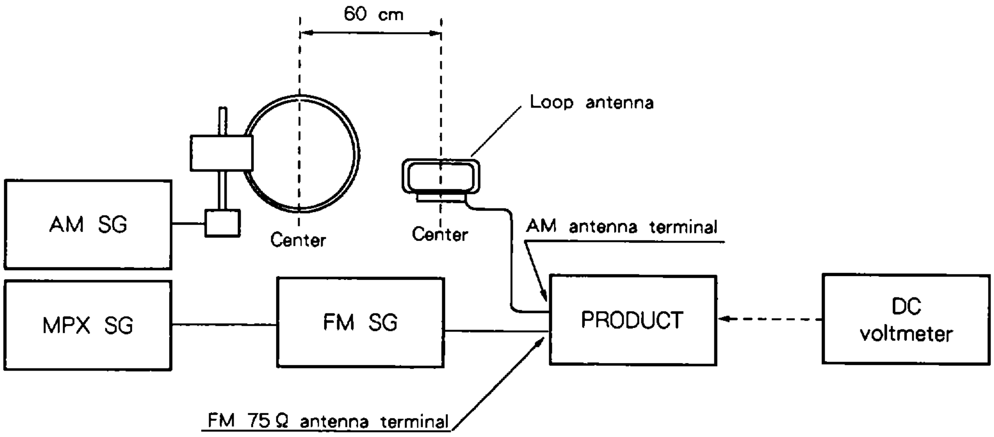
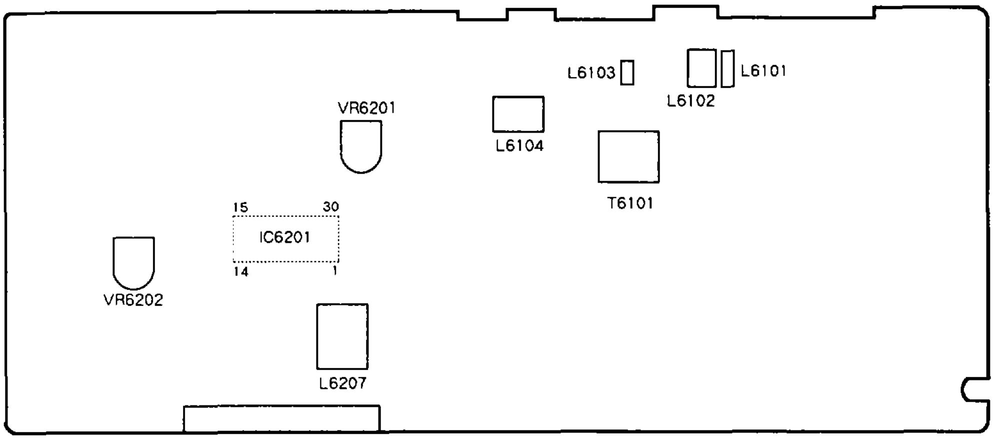
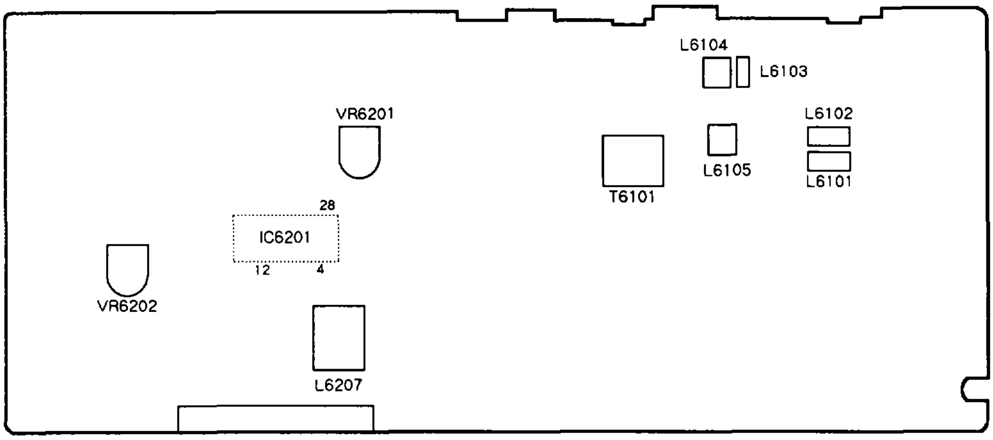


Fig. 7 - 1 AM and FM adjustment wiring diagram

FM/AM TUNER MODULE (AXQ1012 and AXQ1013)


L6103
L6101
L6102
VR6201
L6104
T6101
15
30
IC6201
14
1
VR6202
L6207

FM/AM TUNER MODULE (AXQ1014)


L6104
L6103
VR6201
L6102
L6105
L6101
T6101
28
IC6201
12
4
VR6202
L6207

FM/AM TUNER MODULE (AXQ1016)

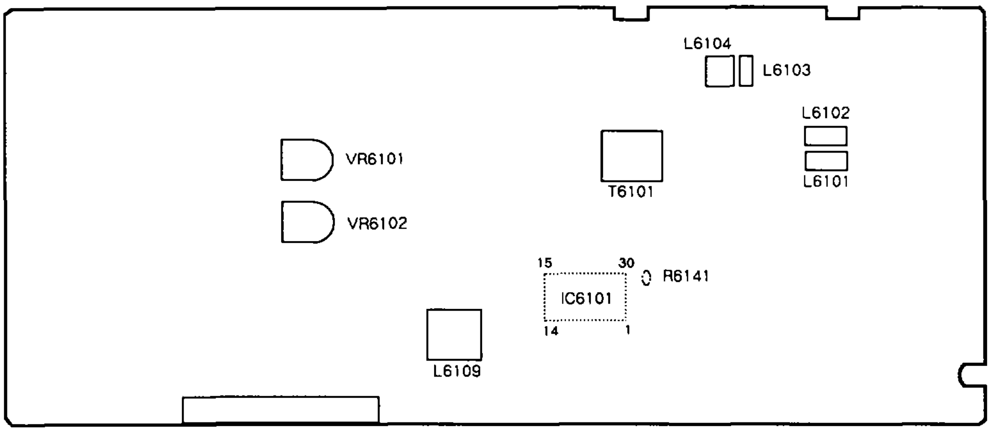

L6104
L6103
L6102
VR6101
T6101
L6101
VR6102
15
30
R6141
IC6101
14
1
L6109

Fig. 7-2 Adjustment Point

7.2 POWER AMP. MODULE SECTION

1. Handling Precautions

- Since the heat sink and transistor metallic parts are connected to the Front Amp. output, make sure they do not contact the GND (chassis) or other circuits.
- Since there is residual high voltage in the ± B1 in the FRONT 50W assy and ± B2 in the REGULATOR assy (or REAR REGULATOR assy) even when the power is OFF, caution should be exercised. (If necessary, the voltage should be discharged).
- When handling the Power Amp. Module, make sure you do not touch the fan motor blade.

2. Adjustment and Confirmation of Idle Current

- Basically, the idle current needs to be confirmed when replacing a power transistor, driver transistor, or bias transistor, or when the entire split board assy of the Power Amp. Module has been replaced.
- Make sure the heat sink has cooled sufficiently before measuring the idle current. (Temperature should be the same as room temperature ; 25 °C is ideal, if possible.)
- Idle current stipulated value : 3 - 100mA.

■ Front Amp. side(FRONT 50W assy)

Note : Step 1 is CL-J75LD only.

Step	Measurement	Item	Remarks
1	L ch side	Short both sides of C7144 and C7145 on the Rear Amp. side. (Refer to Fig. 7-6)	Do not operate the Rear Amp. side.
2		Insert a resistor (0.22 Ω , 3W or more) in series in the connector CN7502 + B1 (or − B1) line (terminal No. 5 or 6). (Refer to Fig. 7-4.)	For measuring voltage at both sides of resistor.
3		Short both sides of C7524.	Do not operate R ch side.
4		Turn the power ON, wait 6 seconds, and then measure the resistance voltage in Step 2.	L ch Idle current I=V/0.22
5	R ch side	● Same as Steps 1 and 2 above. ● Short both sides of C7523.	Do not operate L ch side.
6		Turn the power ON under the above conditions, and after 6 seconds measure the resistance voltage in Step 2.	
7	–	If the measured idle current is greater than 100mA, perform the following procedure.	
8	L ch side	Short between the Point Ⓐ pattern in Fig. 7-6 using solder.	Connect R7517 to R7515 in a parallel circuit.
9	R ch side	Short between the Point Ⓑ pattern in Fig. 7-6 using solder.	Connect R7518 to R7516 in a parallel circuit.
10	–	After performing Step 8 and 9, remeasure the idle current and confirm that it is below 100mA.	
11	–	If the idle current is below 3mA, perform the following procedure.	
12	L ch side	Short between the point Ⓒ pattern in Fig. 7-6 using solder.	Connect R7551 to R7519 in a parallel circuit.
13	R ch side	Short between the point Ⓓ pattern in Fig. 7-6 using solder.	Connect R7552 to R7520 in a parallel circuit.
14	–	After performing steps 12 and 13, remeasure the idle current and confirm that it is greater than 3mA (within 3-100mA).	

■ Rear Amp. side (REAR REGULATOR assy) (CL - J75LD only)

Step	Measurement	Item	Remarks
1	Center amp. side	Short both sides of C7523 and C7524 on the Front Amp. side. (Refer to Fig. 7 - 6)	Do not operate the Front Amp. side.
2		Insert a resistor (0.22 Ω , 2W or more) in series in the connector CN7102 + B2 (or − B2) line (terminal No. 5 or 6). (Refer to Fig. 7 - 5.)	For measuring voltage at both sides of resistor.
3		Short both sides of C7145 on the Sorround amp. side.	Do not operate the Surround Amp.
4		Turn the power ON, wait 6 seconds, and then measure the resistance voltage in Step 2.	Idle current : I=V/0.22
5	Surround amp. side	● Same as Steps 1 and 2 above. ● Short both sides of C7144 on Surround amp. side.	Do not operate the Surround Amp.
6		Turn the power ON under the conditions in steps 1 and 2, and after 6 seconds measure the resistance voltage in Step 2.	
7	–	If the measured idle current is greater than 100mA, perform the following procedure.	
8	Center amp. side	Short between the Point Ⓔ pattern in Fig. 7 - 6 using solder.	Connect R7117 to R7115 in a parallel circuit.
9	Surround amp. side	Short between the Point Ⓕ pattern in Fig. 7 - 6 using solder.	Connect R7118 to R7116 in a parallel circuit.
10	–	After performing steps 8 and 9, remeasure the idle current and confirm that it is below 100mA.	
11	–	If the idle current is below 10mA, perform the following procedure.	
12	Center amp. side	Short between the point Ⓖ pattern in Fig. 7 - 6 using solder.	Connect R7151 to R7119 in a parallel circuit.
13	Surround amp. side	Short between the point Ⓗ pattern in Fig. 7 - 6 using solder.	Connect R7152 to R7120 in a parallel circuit.
14	–	After performing steps 12 and 13, remeasure the idle current and confirm that it is greater than 10mA (within 10 - 100mA).	

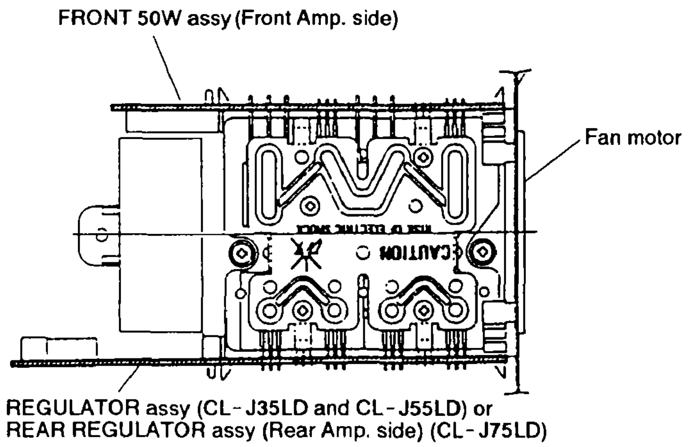

FRONT 50W assy (Front Amp. side)
Fan motor
CAUTION
REGULATOR assy (CL - J35LD and CL - J55LD) or
REAR REGULATOR assy (Rear Amp. side) (CL - J75LD)

Fig. 7 - 3 PCB Location of Power Amp. Module

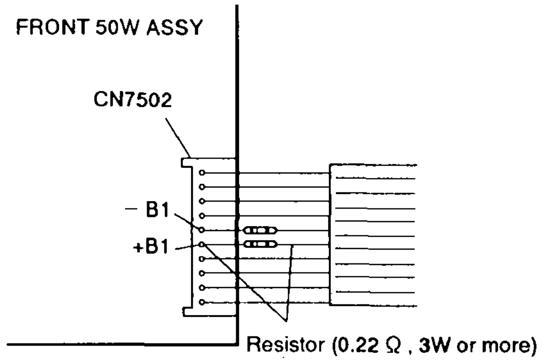

FRONT 50W ASSY
CN7502
− B1
+B1
Resistor (0.22 Ω , 3W or more)

Fig. 7 - 4 Checking for voltage at both sides of resistor

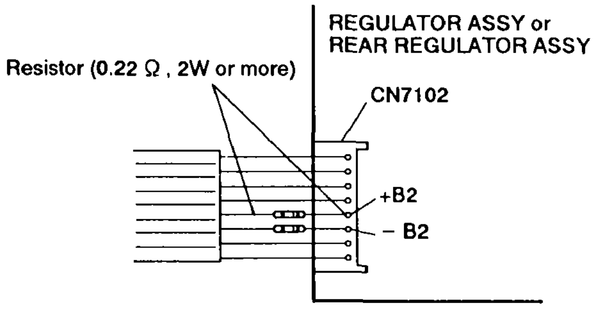
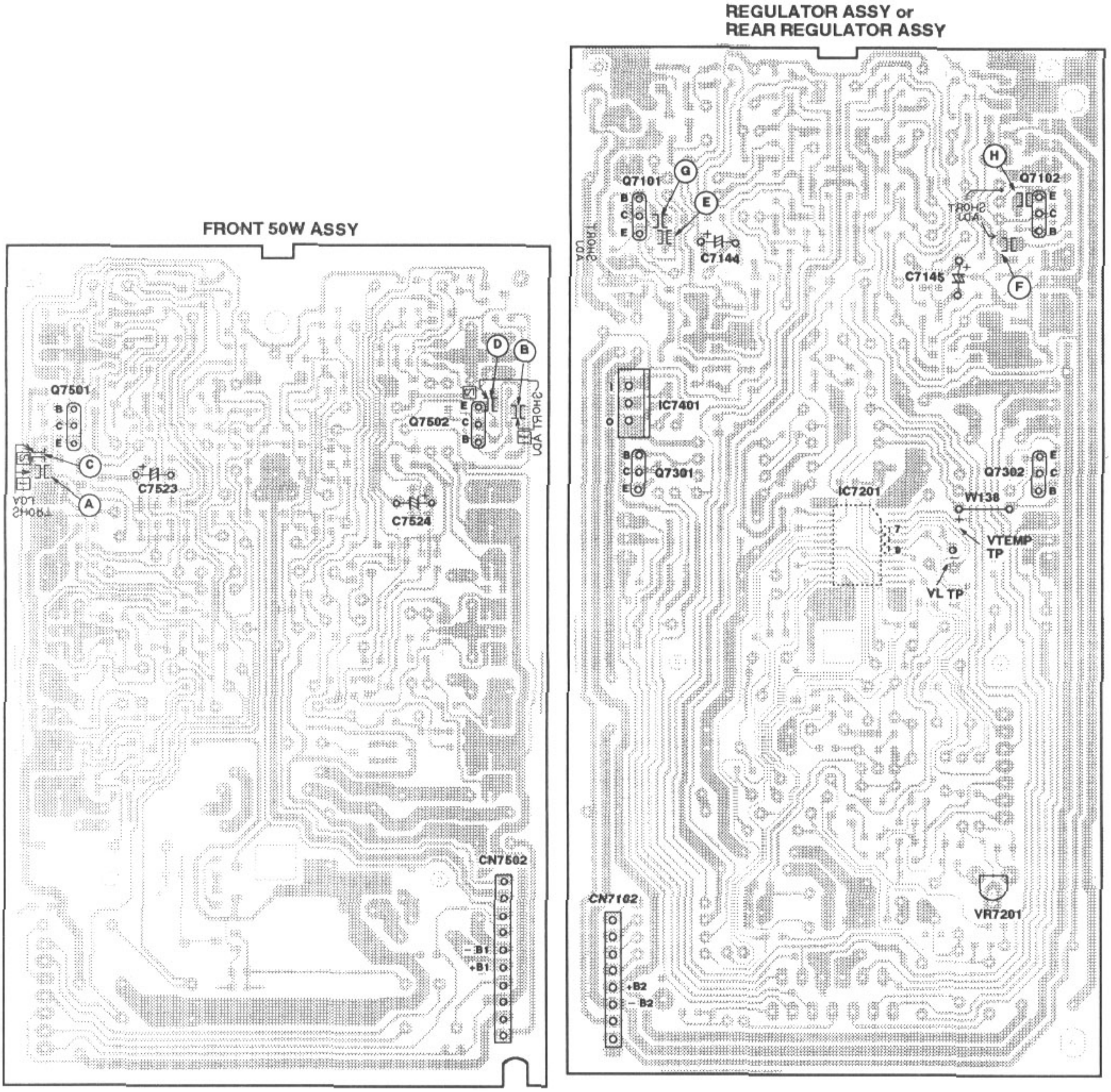

REGULATOR ASSY or
REAR REGULATOR ASSY
Resistor (0.22 Ω , 2W or more)
CN7102
+B2
− B2

Fig. 7 - 5 Checking for voltage at both sides of resistor


FRONT 50W ASSY

REGULATOR ASSY or
REAR REGULATOR ASSY

Q7501
B
C
E
C
A
SHORT
ADJ
C7523
C7524
D
B
Q7502
E
C
B
SHORT
ADJ
CN7502
– B1
+B1
Q7101
B
C
E
G
E
C7144
SHORT
ADJ
H
Q7102
E
C
B
SHORT
ADJ
C7145
F
IC7401
Q7301
B
C
E
IC7201
7
8
Q7302
E
C
B
W136
VTEMP
TP
VL TP
VR7201
CN7102
+B2
– B2

Fig. 7 - 6   Adjustment point

3. Adjusting the Operating Temperature Setting of the Fan Motor (VR7201)

This adjustment is necessary when IC7401 (+12V regulator), Q7301 and Q7302 (temperature sensors), IC7201 (protection IC) or VR7201 has been replaced, or when the entire split board assy of the Power Amp. Module has been replaced.

■ Adjustment-Related Cautions

- Make sure the heat sink has sufficiently cooled (is the same as room temperature Ta.)
- Once the power has been turned ON, make measurements and adjustments as quickly as possible. (If too much time is taken, the heat sink temperature will rise, and the measurements will deviate from the Ta measurement point.)

■ Adjustment

1. Connect a voltmeter between VTEMP and VL (or between IC7201 terminals No. 9 and 7). (Refer to Fig. 7-6 and 7.)
2. Determine the fan motor operating temperature setting by means of the following formula. (Tolerance is within ± 30mV.)
   Formula :(75 ° C − Ta) × 19(mV)
   Ta : ambient temperature (° C)
3. Adjust VR7201 so that the voltage between VTEMP and VL is the value obtained from the above formula.
   For example:
   when the room temperature is 25 ° C,
   set value = (75 − 25) × 19 (mV)
   = 950mV(tolerance within ± 30mV)

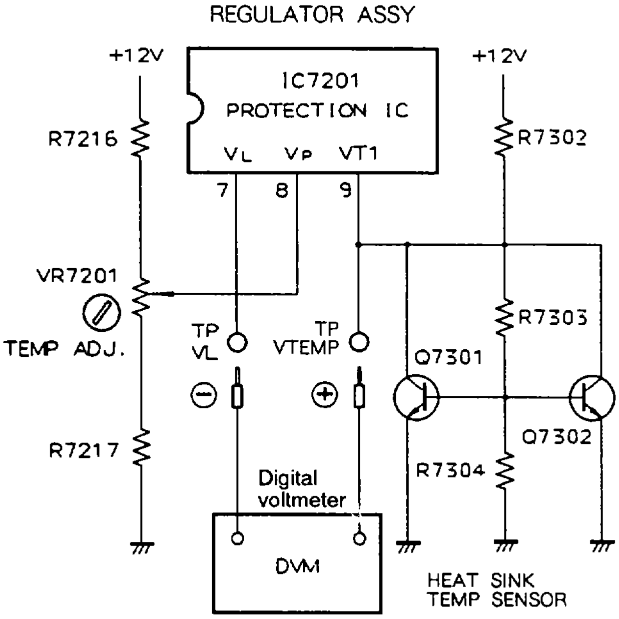

REGULATOR ASSY
+12V
+12V
IC7201
PROTECTION IC
VL
VP
VT1
7
8
9
R7216
R7302
VR7201
TEMP ADJ.
TP
VL
TP
VTEMP
R7303
Q7301
⊖
⊕
Q7302
R7217
Digital voltmeter
R7304
DVM
HEAT SINK
TEMP SENSOR

Fig. 7-7 Adjustment of operating temperature setting of fan motor

7.3 CASSETTE DECK SECTION

- Adjustment point and test point are shown Fig.7 - 9 and 7 - 11.

■ Mechanical Adjustment

- Set the TAPE function.
- Test tape : STD - 301 (3kHz, 30min)

1. Tape Speed Adjustment

No.	Mode	Test Tape	Adjustment point	Measurement point	Adjustment procedure	Remarks
1	PLAY	STD-301 (Playback : 3kHz)	DECK unit VR4111	TAPE TEST POINT(Rch)	Press the PLAY SW and adjust so that the reading becomes 3010Hz ± 10Hz, Confirm that wow & flutter level is below 0.2% (in the reverse direction, confirm that the reading is within 3010Hz ± 60Hz).	

■ Electrical Adjustment

Check the following before starting

1. Confirm that the tape speed adjustment has been completed.
2. Clean the heads and demagnetize them using a head eraser.
3. Set the measurement level to 0dBV=1Vrms.
4. Use the specified tape for adjustment. Use the labeled (A) side of the test tape.
   STD - 331E : For playback adjustment
   STD - 631 : Normal blank tape
5. Provide yourself with the following measuring devides :
   - AC millivoltmeter
   - Low-frequency oscillator
   - Attenuator
   - Oscilloscope
6. Adjust both right and left channels unless otherwise specified.
7. Turn the DOLBY NR switch off unless otherwise specified.
8. Warm up the unit for several minutes before adjustment. In particular, be sure to warm up the unit in the REC/PLAY mode for 3 to 5 minutes before starting recording/playback frequency characteristics adjustment.
9. Always follow the indicated adjustment order. Otherwise, a complete adjustment may not be achieved.

Playback Adjustment (DECK Ⅰ and DECK Ⅱ)

1. Head Azimuth Adjustment
2. Playback Level Adjustment

Recording Adjustment (DECK Ⅱ)

1. Bias Oscillation Frequency Adjustment
2. Recording Bias Adjustment
3. Recording Level Adjustment
4. ALC Operation Check

※ As the reference recording level is 250nwb/m for STD - 331E, the recording level will be higher by 4 dB for STD - 331B (160nwb/m). When adjusting, pay careful attention to the type of tape used.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double - D system ◨◧ are trademarks of Dolby Laboratories Licensing Corporation.

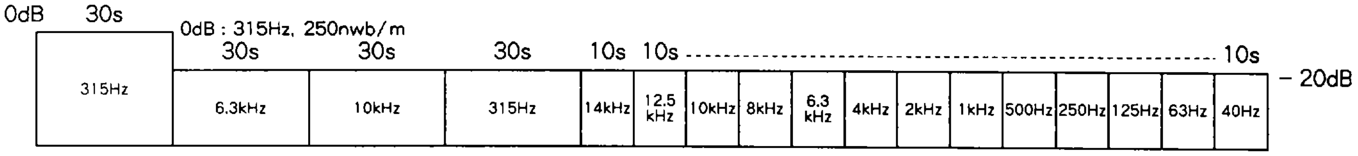


Fig. 7 - 8 STD - 331E Test Tape

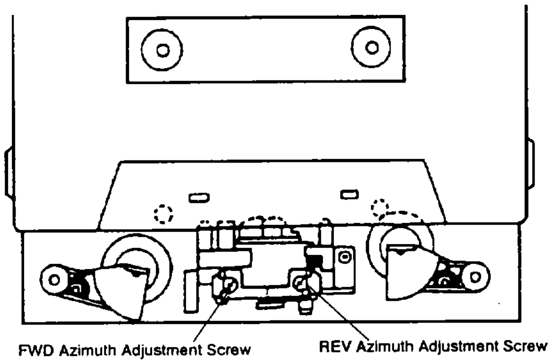


Fig. 7-9 Head Azimuth Adjustment

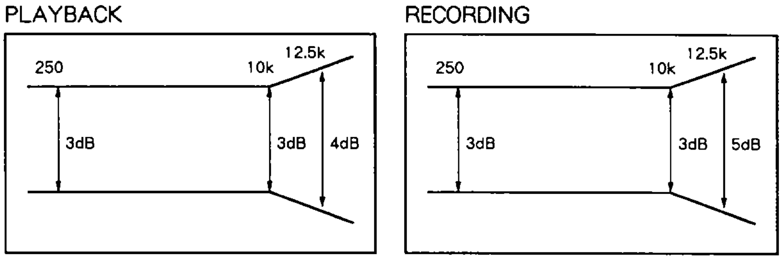


Fig. 7-10 Frequency Characteristics

● Playback Adjustment

- This unit is equipped with auto tape selector.
- Do not switch between forward and reverse operation with the screwdriver inserted.

1. Head Azimuth Adjustment

No.	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjustment Point		Measurement Point	Adjustment Value	Remarks
1	NORMAL	PLAY	STD-331E test tape (Playback : 10kHz, − 20dB)	Deck I	Head azimuth adjustment screw (Fig. 7-9)	TAPE TEST POINT (L, Rch) (MAIN assy)	Max. playback signal level	After adjustment, apply lock paint to the head azimuth adjustment screw.
				Deck II				

2. Playback Level Adjustment

- Since this adjustment determines playback Dolby NR level, perform it carefully.

No.	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjustment Point		Measurement Point	Adjustment Value	Remarks
1	NORMAL	PLAY	STD-331E test tape (Playback : 315Hz, 0dB)	Deck I	VR4201 (Lch) VR4202 (Rch)	TAPE TEST POINT (L, Rch) (MAIN assy)	− 4.8dBV	
				Deck II	VR4203 (Lch) VR4204 (Rch)			

● Recording Adjustment

1. Bias Oscillation Frequency Adjustment

No.	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjustment Point		Measurement Point	Adjustment Value	Remarks
1	NORMAL	REC	Load the STD-631 test tape and set the recording mode.	Deck I	−	−	Oscillation frequency to be 105.0kHz ± 2kHz.	When the power is turned ON while the DD NR ON/OFF button is depressed, the frequency will decrease 2-3kHz.
				Deck II	T4351	Between Ⓐ point in Fig. 7-11 and GND.		

2. Recording Bias Adjustment

- After the adjustment, caution should be exercised so as not to become under bias by checking the distortion rate.

No.	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjustment Point		Measurement Point	Adjustment Value	Remarks
1	NORMAL	REC	Input a 315Hz signal to the VIDEO IN terminal and set the input selector to VIDEO.	Deck I	−	TAPE TEST POINT (L, Rch) (MAIN assy)	− 24.8dBV	
				Deck II	Input signal level			
2	NORMAL	REC → PLAY	Load the STD-631 test tape and record/playback the 315Hz and 10kHz signals.	Deck I	−	TAPE TEST POINT (L, Rch) (MAIN assy)	Repeat adjustment until playback level of the 10kHz signal is within 0 ± 0.5dB from that of the 315Hz signal.	
				Deck II	VR4352 (Lch) VR4351 (Rch)			

3. Recording Level Adjustment

No.	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjustment Point		Measurement Point	Adjustment Value	Remarks
1	NORMAL	REC	Input a 315Hz signal to the VIDEO IN terminal and set the input selector to VIDEO.	Deck I	Input signal level	TAPE TEST POINT (L, Rch) (MAIN assy)	− 8.8dBV	
				Deck II				
2	NORMAL	REC→ PLAY	STD-631 test tape and record/playback the 315Hz signal.	Deck I	−	TAPE TEST POINT (L, Rch) (MAIN assy)	Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes − 8.8dBV.	
				Deck II	VR4301 (Lch) VR4302 (Rch)			

4. ALC Operation Check

No.	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjustment Point	Measurement Point	Adjustment Value	Remarks
1	NORMAL	REC/ PAUSE	Input a 315Hz signal to the VIDEO IN terminal and set the input selector to VIDEO.	Input signal level	TAPE TEST POINT (L, Rch) (MAIN assy)	− 8.8dBV	
2				Set to a level +10dB above the input level at step 1.		− 3.8 ± 2.5dBV	

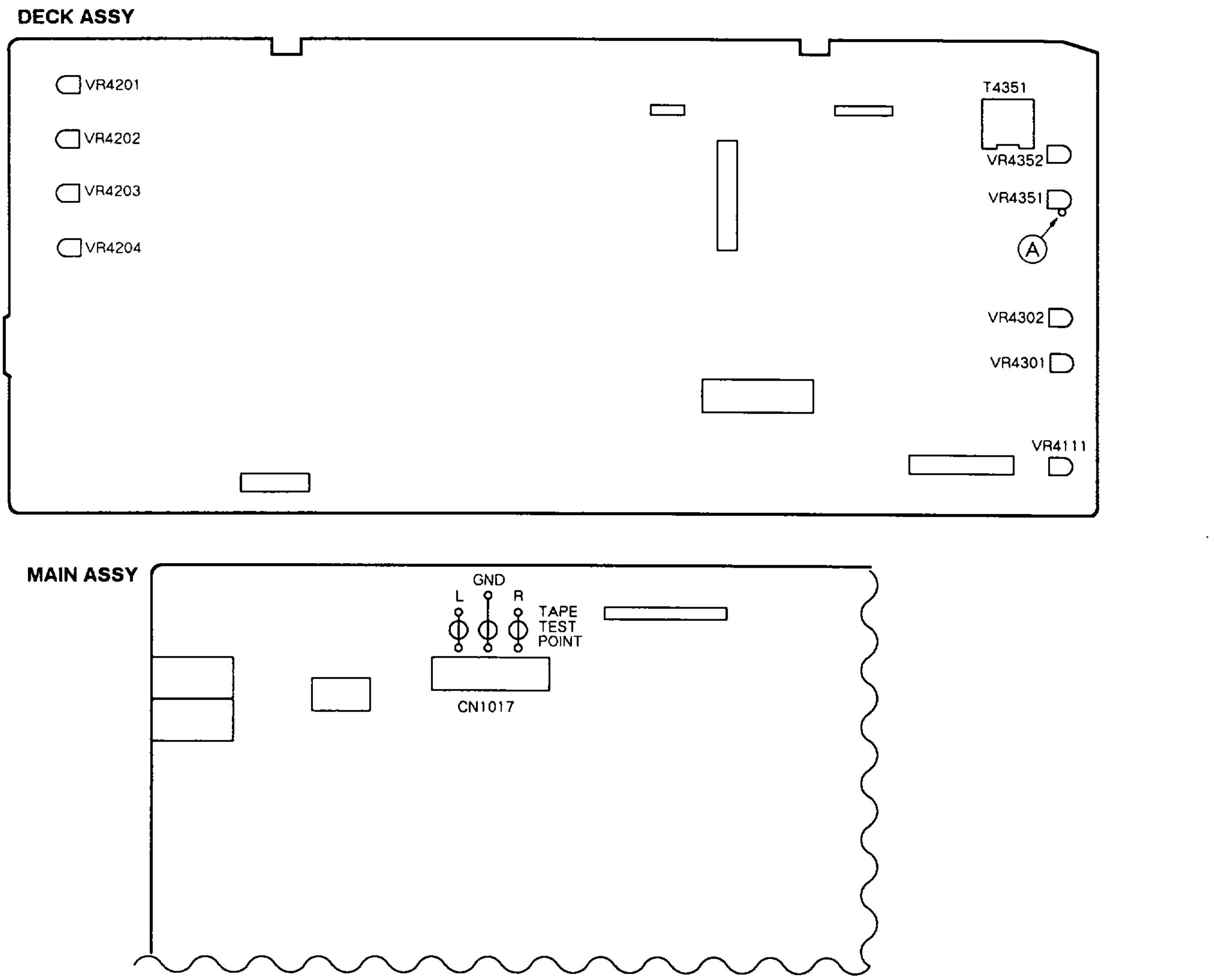

DECK ASSY
VR4201
VR4202
VR4203
VR4204
T4351
VR4352
VR4351
A
VR4302
VR4301
VR4111
MAIN ASSY
GND
L
R
TAPE TEST POINT
CN1017

Fig. 7-11 Adjustment point and Measurement point

7.4 CLD SECTION

1. Test Mode

1)How to start test mode

On the VIMC unit, Short circuit the test mode jumper W423 and GND (chassis), the test mode is started by putting the power switch ON. (Fig. 7 - 12)
After confirming that all FL indicators are lit, remove test mode jumper wire and GND connection. If you have test mode remote control unit (GGF1067), press ESC key and TEST key in order with power switch ON.

2)How to cancel test mode

Turn power switch OFF. Or, press test mode remote control unit ESC key.

3)Functions and key control when in test mode

Note : For keys not on player or on accompanying remote control unit, use test mode remote control unit(GGF1067).

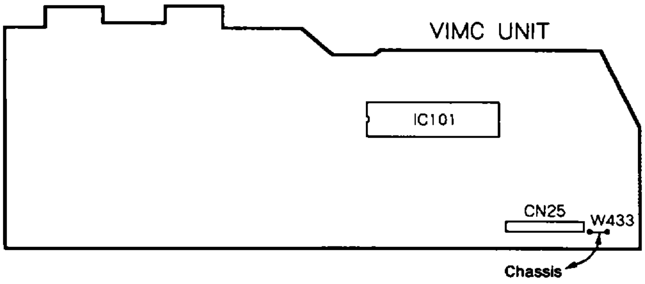


Fig. 7 - 12

Note : When you open the tray in test mode, the screen displays goes out. To display the screen again, press the DISPLAY key.

• Key Operation In the Test Mode

Player status	Key operation	Function	TV screen display
Tray open	I◀◀ / ▶▶I SKIP (Note 1)	I◀◀ : Shifts the tray in the closed direction and also raises the turn table while pressing the key. ▶▶I : Shifts the tray in the open direction and also lowers the turn table while pressing the key.	
Tray open	▶ PLAY	Clamps	
Clamp	▶ PLAY	Turns the disc through TRK Servo OFF	TRK - OFF
TRK servo OFF	▶ PLAY	TRK servo ON	TRK - ON
TRK servo ON	▶ PLAY	TRK servo OFF	TRK - OFF
TILT neutral	+MULTI - SPEED	TILT servo ON	T-□:ON
TILT ON	- MULTI - SPEED	TILT neutral	T-□:N
TILT neutral or ON	I◀◀ / ▶▶I SKIP	Setting TILT Servo to OFF, can force TILT to move.	T - 1 to T - E
Clamp	◀◀ / ▶▶ SCAN	Can force the slider to move	S - LD S - CDV S - CD S - IN
Play	II PAUSE	Still	
Play	■ STOP	Stop	
Stop	▲ OPEN	Open	
Play	+10 ⇩ 0 to 9 ⇩ ▶ PLAY	Set to SEARCH lead address input mode. Designates the SEARCH lead address through keys 0 to 9. Press the CLEAR C key if the designated address is incorrect. Searches the designated address upon pressing the PLAY key.	

Note 1: Press SKIP (I◀◀ / ▶▶I) keys after the tray is set to open state by pressing OPEN (▲) key.
In tray open state, pressing PLAY (▶) key causes it to set to clamp state is to TILT neutral state and SKIP keys cannot function properly.

1-1 Player Operation in the Test Mode (disc tray is removed)

Operate the player by selecting a test mode function with the keys on the player or on the remote control unit.

- CD PLAYBACK

① Place the CD disc on the turn table.

② Press the PLAY (▶) key once.
(Twin gear starts to move.)

③ Push the cam plate (Fig. 7-13) in the direction of the arrow and wait until the CD disc is clamped.

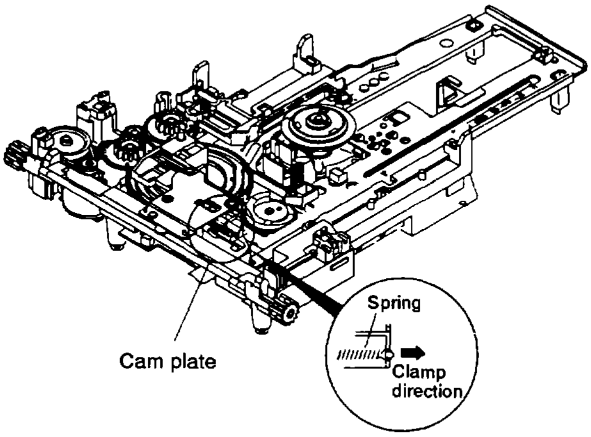
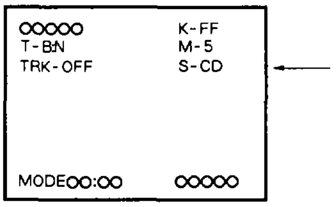


Fig. 7-13

④ Press the ◀◀ or ▶▶ keys to appear "S-CD" on the TV screen display.



```
OOOOO        K-FF
T-B:N        M-5
TRK-OFF      S-CD

MODEOO:OO    OOOOO
```

TV screen display

Fig. 7-14

⑤ After pressing the PLAY (▶) key once to clamp the disc, press the PLAY (▶) key twice, disc will be normally playbacked.

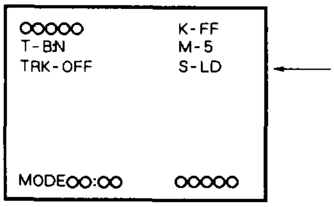
- LD PLAYBACK

① Press the PLAY (▶) key once.
(Twin gear starts to move.)

② Press the SKIP REV (|◀◀) key to raise the turn table (spindle motor section) while pressing the cam plate (Fig. 7-13) in the direction of the arrow.
Raise it to the position where the LD disc can be easily placed on the turn table.
If the turn table is raised too high, lower it with the SKIP FWD (▶▶|) key.

③ Place the LD disc on the turn table and press the PLAY (▶) key once to clamp the disc.

④ Press the ◀◀ or ▶▶ keys to appear "S-LD" on the TV screen display.



```
OOOOO        K-FF
T-B:N        M-5
TRK-OFF      S-LD

MODEOO:OO    OOOOO
```

TV screen display

Fig. 7-15

⑤ After pressing the PLAY (▶) key once to clamp the disc, press the PLAY (▶) key twice, disc will be normally playbacked.

2. Adjustment Precautions

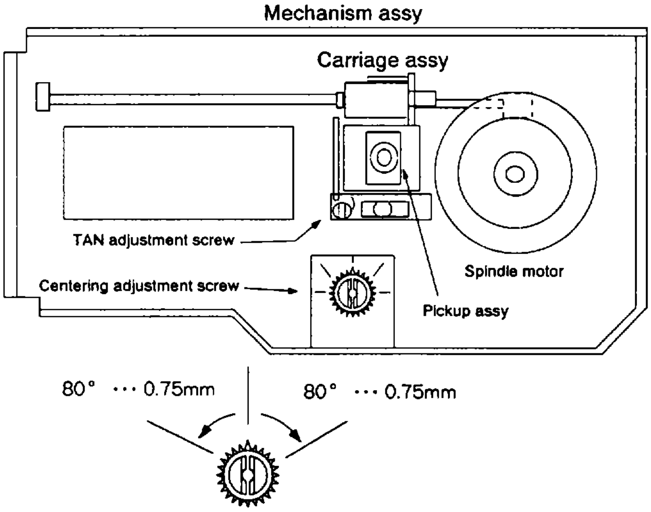
- **Jigs and Instruments Required for Adjustment**
  - CD test disc (YEDS-7)
  - LD test disc (GGV1012)
  - NTSC test disc (GGV1003)
  - PAL test disc (GGV1007)
  - (−) Phillips screwdriver (medium)
  - (−) Phillips screwdriver (small)
  - (+) screwdriver (large)
  - (+) screwdriver (medium)
  - Dual-trace oscilloscope (with delay)
  - Frequency counter
  - TV monitor

2- 1 Before Adjustment Mechanism System

- Centering adjustment screw and TAN adjustment screw

Note : Be careful not to turn centering adjustment screw and TAN adjustment screw past their adjustment range.

After the completion of adjustment, apply locktite or the like to the centering and TAN adjustment screws.


Mechanism assy
Carriage assy
TAN adjustment screw
Centering adjustment screw
Spindle motor
Pickup assy
80° ··· 0.75mm
80° ··· 0.75mm

Do not turn the Centering and TAN adjustment screws past their ranges, which are ± 0.75mm and ± 80 ° from center.
After the completion of adjustment, apply locktite or the like to the Centering and TAN adjustment screws.
Apply at least 1/3 the circumference about 1/2 half the circumference as in the figure.

Fig. 7- 16 Adjustment point of mechanism assy

- The mechanical adjustments can all be carried out with disc tray mounted.

- Notes When Adjusting Centering

If waveform S/N is bad and difficult to observe in "3. Spindle motor centering adjustment" (Refer to page 145) use the low pass filter in diagram.

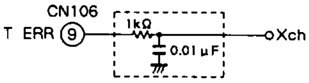

CN106
T ERR
9
1kΩ
0.01 μF
Xch

Fig. 7- 17 Low pass filter

- Carriage Assy Position When Adjusting Centering

When moving slider to inner position to adjust the innermost track of disc during centering adjustment, be careful not keep the mechanism stopper and Carriage assy from bumping each other. (Fig. 7- 18)

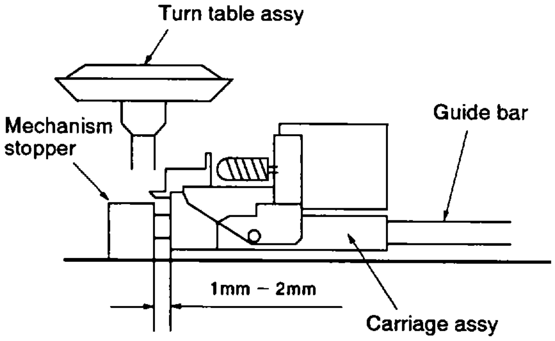

Turn table assy
Mechanism stopper
Guide bar
1mm - 2mm
Carriage assy

Fig. 7- 18

- Notes When Adjusting Pickup Assy

Please clean lens first when readjusting the PICKUP assy that is on this product. Also when changing PICKUP assy, change whole CARRIAGE assy (VWT1110).

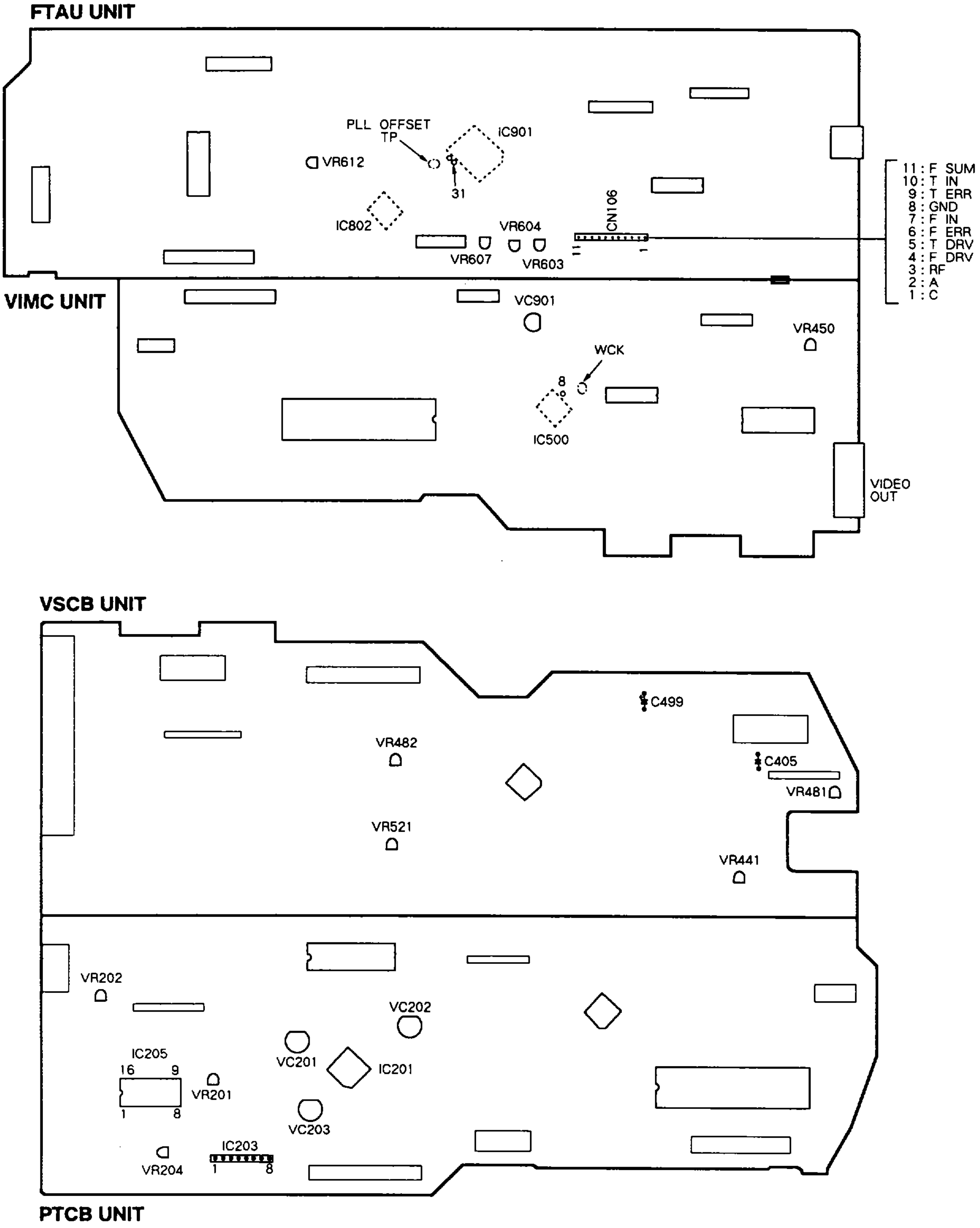
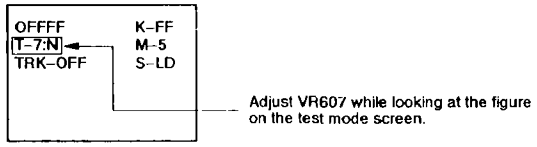
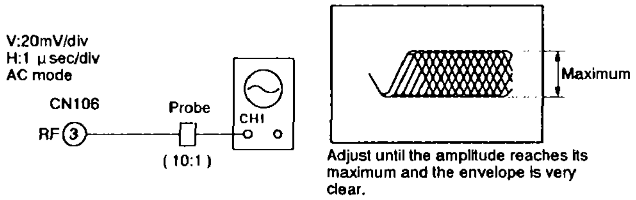
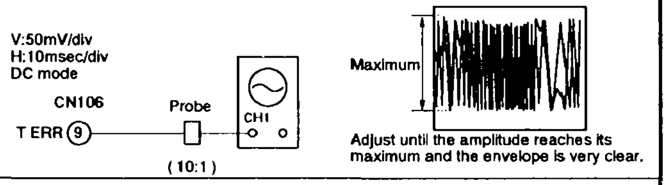
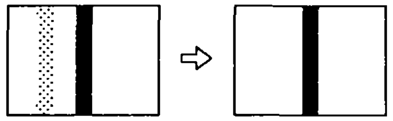
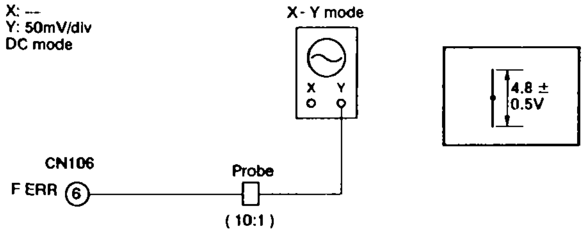
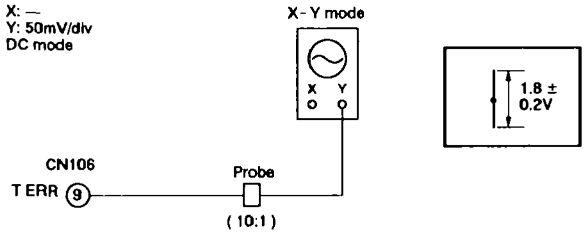
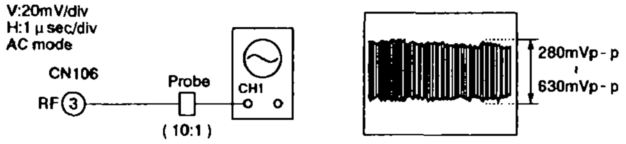

FTAU UNIT
PLL OFFSET TP
IC901
VR612
31
IC802
VR604
CN106
VR607
VR603
11 : F SUM
10 : T IN
9 : T ERR
8 : GND
7 : F IN
6 : F ERR
5 : T DRV
4 : F DRV
3 : RF
2 : A
1 : C
VIMC UNIT
VC901
VR450
WCK
8
IC500
VIDEO OUT
VSCB UNIT
C499
VR482
C405
VR481
VR521
VR441
VR202
VC202
IC205
16
9
VC201
IC201
VR201
1
8
VC203
IC203
VR204
1
8
PTCB UNIT

Fig. 7 - 19 Adjustment point

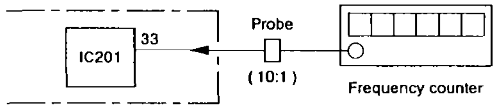
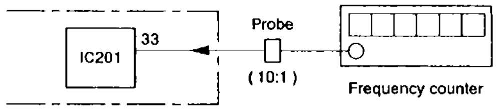
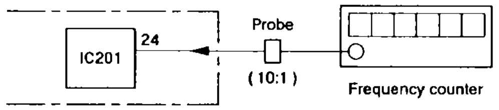
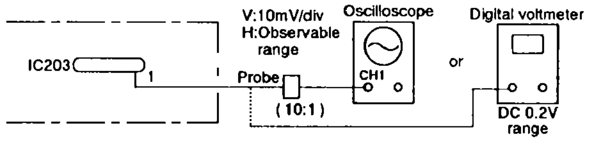
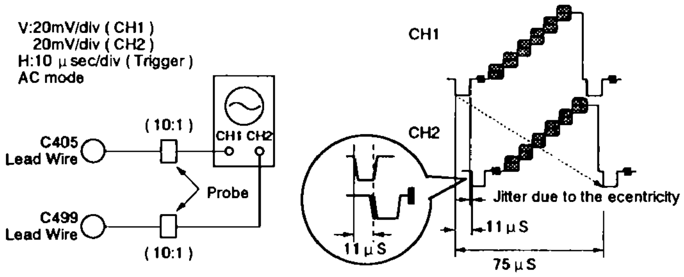
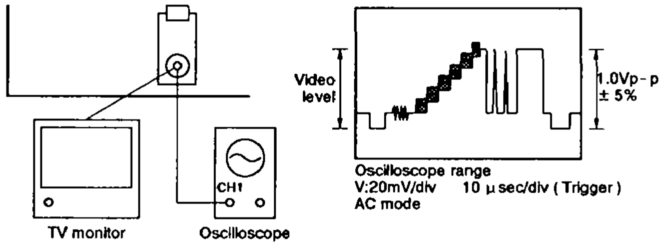
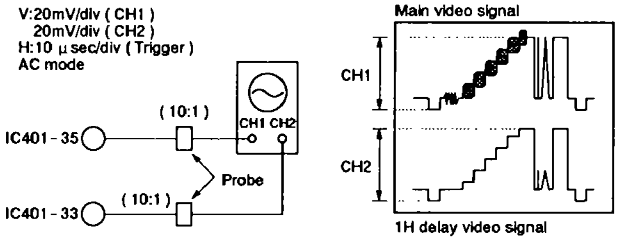
3. Mechanical Adustments

Step	Adjustment name	Adjustment point	Measuring point and measuring mode	Player condition	Adjustment procedure	Waveform and connection diagram
1	Tilt offset adjustment	FTAU unit VR607 (TILT OFFSET)	TV monitor	Test mode Disc not installed	Adjust VR607 so that the tilt indication reaches T - 6 to T - 8. (See test mode function and key operation)	 OFFFF T-7:N TRK-OFF K-FF M-5 S-LD Adjust VR607 while looking at the figure on the test mode screen.
2	Tangential direction angle adjustment	Carriage assy TAN adjustment screw	FTAU unit CN106 - 3 (RF)	CD play (CD INSIDE POSITION) TRKG - ON, TILT - ON	Adjust so that the amplitude of the RF waveform reaches its maximum and the envelope is very clear.	 V:20mV/div H:1 µ sec/div AC mode CN106 RF ③ Probe (10:1) CH1 Maximum Adjust until the amplitude reaches its maximum and the envelope is very clear.
3	Spindle motor centering adjustment	Mechanism assy Centering adjustment screw	FTAU unit CN106 - 9 (T ERR)	CD play (CD INSIDE POSITION) TRKG - OFF, TILT - ON	Adjust so that the amplitude of the tracking error waveform reaches its maximum and the envelope is very clear.	 V:50mV/div H:10msec/div DC mode CN106 T ERR ⑨ Probe (10:1) CH1 Maximum Adjust until the amplitude reaches its maximum and the envelope is very clear.
4	Cross talk check and tilt offset adjustment	FTAU unit VR607 (TILT OFFSET)	TV monitor Crosstalk monitor check	GGV1012 #115 STILL TRKG - ON, TILT - ON	If the crosstalk is pronounced, adjust VR607 until the crosstalk is not noticeable.	 If the crosstalk is pronounced adjust until the crosstalk is not noticeable.
5	Focus servo loop gain adjustment	FTAU unit VR604 (FOCUS GAIN)	FTAU unit CN106 - 6 (F ERR) CH2 "X - Y mode"	GGV1012 (PLAY STANDBY) Short CN106 - 7 (F IN) and 8 (GND), then PLAY (disc not turn)	Adjust VR604 until the waveform level is 4.8 ± 0.5V.	 X: --- Y: 50mV/div DC mode X - Y mode X Y 4.8 ± 0.5V CN106 F ERR ⑥ Probe (10:1)
6	Tracking servo loop gain adjustment	FTAU unit VR603 (TRKG GAIN)	FTAU unit CN106 - 9 (T ERR) CH2 "X - Y mode"	GGV1012 #115 STILL TRKG - ON, TILT - ON	Adjust VR603 until the waveform level is 1.8 ± 0.2V.	 X: — Y: 50mV/div DC mode X - Y mode X Y 1.8 ± 0.2V CN106 T ERR ⑨ Probe (10:1)
7	RF level check	————	FTAU unit CN106 - 3 (RF)	GGV1012 #115 STILL TRKG - ON, TILT - ON	Check that the RF waveform amplitude is within the range 280mVp - p to 630mVp - p. ※ There is some variation according to the pickup, but it is about 400mVp - p.	 V:20mV/div H:1 µ sec/div AC mode CN106 RF ③ Probe (10:1) CH1 280mVp - p 630mVp - p

(NOTE)

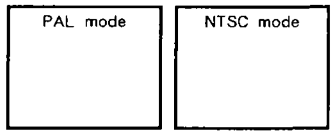
- This adjustment can be thought to be about the same adjustment as on the manufacturing line with differing adjustment tools. Follow the adjustment procedures even for checking the adjustments.
- The test disc is a GGV1012 (8-inch LD test disc) and corresponds to YEDS - 7 (CD).
- When you open the tray in test mode, the screen displays goes out. To display the screen again, press the DISPLAY key.
- The mechanical adjustment can be all carried out with disc tray mounted.

The following steps are applicable to the CL–J35LD/HE, HE/FR, HEZI/DI, CL–J75LD/HE, HE/FR, HEZI/DI, and HB.

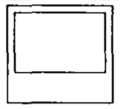
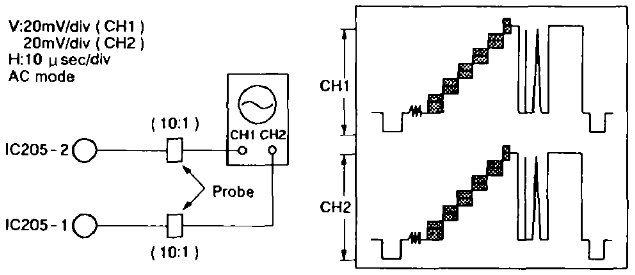
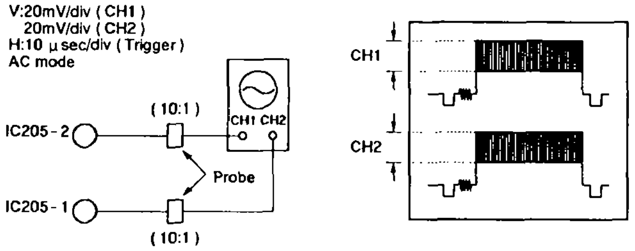
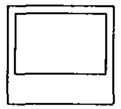
Step	Adjustment name	Adjustment point	Measuring equipment and jigs	Measurement point	Player condition	Adjustment procedure	Waveform and connection diagram
8	NTSC reference clock adjustment	PTCB unit VC202	• Frequency counter • GGV1003	PTCB unit IC201 - 33 (TBC CLK)	NTSC PLAY mode Play the NTSC disc, or select the NTSC mode . (* 1)	Adjust 4 fsc frequency (14.31818MHz) ± 100Hz.	 IC201 33 Probe (10:1) Frequency counter
9	PAL reference clock adjustment	PTCB unit VC201	• Frequency counter • GGV1007	PTCB unit IC201 - 33 (TBC CLK)	PAL PLAY mode Play the PAL disc, or select the PAL mode . (* 1)	Adjust 910 fH frequency (14.21875MHz) ± 100Hz.	 IC201 33 Probe (10:1) Frequency counter
10	PAL reference clock adjustment	PTCB unit VC203	• Frequency counter • GGV1007	PTCB unit IC201 - 24 (OSD CLK)	PAL PAUSE mode Play the PAL disc and set to PAUSE state, or select the PAL mode. (* 1)	Adjust 4 fsc frequency (17.734475MHz) ± 100Hz.	 IC201 24 Probe (10:1) Frequency counter
11	PAL VCXO ERR OFFSET check	PTCB unit VC201	• Oscilloscope • GGV1007 • Digital volt meter	PTCB unit IC203 - 1 (VCXO ERR)	Play the PAL disc.	Play the PAL disc and check that the voltage of VCXO ERR at IC203 - 1 is 0V ± 100mV. If the specified voltage is not obtained, adjust VC201 so that the voltage becomes 0V ± 100mV. Note : The adjustment of VC201 in this step should have priority over that in step 9.	 V:10mV/div H:Observable range Oscilloscope Digital voltmeter IC203 1 Probe (10:1) CH1 or DC 0.2V range
12	VCO center frequency adjustment	VSCB unit VR481	• Oscilloscope • GGV1007	VSCB unit CH1 : C405 lead wire CH2 : C499 lead wire	• Normal mode • GGV1007 #4,000 STILL	Place a trigger in CH 1 and adjust until the center of the CH 2 video signal jitter is 75 μsec (1H+11 μsec) ± 1.4 μsec compared to the CH 1 video signal.	 V:20mV/div (CH1) 20mV/div (CH2) H:10 μ sec/div (Trigger) AC mode (10:1) CH1 CH2 C405 Lead Wire Probe C499 Lead Wire (10:1) CH1 CH2 Jitter due to the ecentricity 11 μ S 11 μ S 75 μ S
13	Video level adjustment	VSCB unit VR482	• TV monitor • Oscilloscope • GGV1003	video output terminal	• Normal mode • GGV1003 #19,900 STILL	Connect a 75 Ω resistor to the VIDEO output terminal (possibly by connecting to the monitor) and adjust until the sync tip to 100% white level is 1Vp - p ± 5% at white (100%) signal.	 Video level 1.0Vp - p ± 5% CH1 TV monitor Oscilloscope Oscilloscope range V:20mV/div 10 μ sec/div (Trigger) AC mode
14	1H delay video level adjustment	VSCB unit VR441	• Oscilloscope • GGV1003	VSCB unit CH1 : IC401 - 35 CH2 : IC401 - 33	• Normal mode • GGV1003 #19,900 STILL	Adjust until the sync tip to 100% white level at the white (100%) signal is the same as in CH 1 and CH 2.	 V:20mV/div (CH1) 20mV/div (CH2) H:10 μ sec/div (Trigger) AC mode (10:1) CH1 CH2 IC401 - 35 Probe (10:1) IC401 - 33 Main video signal CH1 CH2 1H delay video signal

* 1 : NTSC or PAL modes are selected
Press the POWER button while pressing the SFC button after POWER button is turned to OFF.

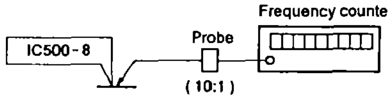
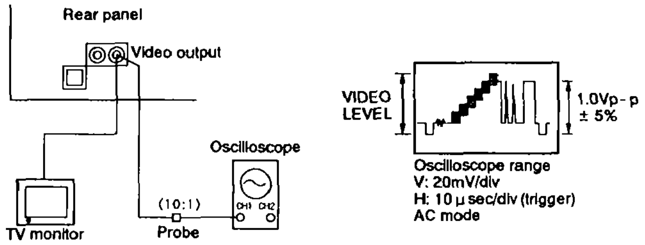
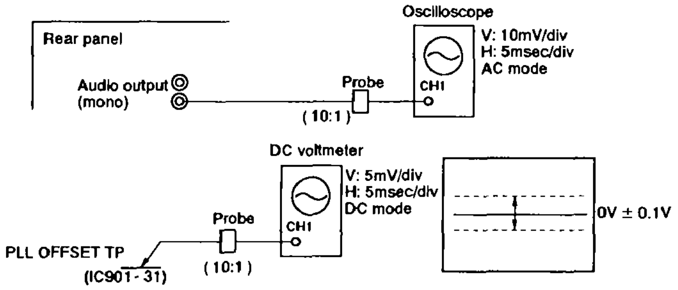
PAL and NTSC modes are indicated as follows.


PAL mode
NTSC mode

•PAL mode •NTSC mode
TV screen display

Step	Adjustment name	Adjustment point	Measuring equipment and jigs	Measurement point	Player condition	Adjustment procedure	Waveform and connection diagram
15	VPS error level adjustment	VSCB unit VR521	• TV monitor • GGV1003	TV monitor	• Normal mode • GGV1003 #8,000 STILL (Magenta screen)	Adjust until the color irregularity on the magenta screen is minimized.	 Color irregularity on the magenta screen is minimized.
16	MOD Y-signal level adjustment	PTCB unit VR204	• Oscilloscope • GGV1003	PTCB unit CH1 : IC205-2 CH2 : IC205-1	• Normal mode • GGV1003 #19,900 STILL	Adjust until the sync tip to 100% white level at the white (100%) signal is the same as in CH 1 and CH 2.	 V:20mV/div (CH1) 20mV/div (CH2) H:10 μ sec/div AC mode (10:1) CH1 CH2 IC205-2 Probe IC205-1 (10:1) CH1 CH2
17	MOD C-signal level adjustment	PTCB unit VR202	• Oscilloscope • GGV1003	PTCB unit CH1 : IC205-2 CH2 : IC205-1	• Normal mode • GGV1003 #8,000 STILL	Adjust until the chroma signal level at the magenta signal is the same as in CH 1 and CH 2.	 V:20mV/div (CH1) 20mV/div (CH2) H:10 μ sec/div (Trigger) AC mode (10:1) CH1 CH2 IC205-2 Probe IC205-1 (10:1) CH1 CH2
18	PAL inverting SC phase adjustment	PTCB unit VR201	• TV monitor • GGV1007	TV monitor	• Normal mode • GGV1007 #6,500 STILL (Magenta screen)	Adjust until the color irregularity on the magenta screen is minimized.	 Color irregularity on the magenta screen is minimized.

4. Electlical Adjustment

Step	Adjustment name	Adjustment point	Measurement point	Player condition	Adjustment procedure	Waveform and connection diagram
1	Master clock adjustment	VIMC unit VC901	VIMC unit IC500-8 (WCK)	Power ON	Adjust VC901 so that frequency with power on is 14.31818MHz ± 10Hz. Connect video output terminal and oscilloscope. (Video output terminal is terminated with 75 Ω) (It is possible terminate video output terminal with 75 Ω by connecting TV monitor)	 Frequency counter IC500-8 Probe (10:1)
2	Output video level adjustment	VIMC unit VR450 (VIDEO LEVEL)	VIMC unit Video output terminal	Normal mode GGV1012 #19,900 STILL	Adjust VR450 so that level from video signal sync tip to 100% white becomes 1Vp-p ± 5%. (Video output terminal is terminated with 75 Ω)	 Rear panel Video output VIDEO LEVEL 1.0Vp-p ± 5% Oscilloscope TV monitor (10:1) Probe CH1 CH2 Oscilloscope range V: 20mV/div H: 10 μ sec/div (trigger) AC mode
3	PLL OFFSET adjustment	FTAU unit VR612 (PLL OFFSET)	FTAU unit IC901-31 (PLL OFFSET TP)	Test mode CD play TRKG servo OFF/ON	With the tracking servo off, playback digital audio and roughly adjust VR612 so that the sound is audible. Connect IC901-31 a DC voltmeter and while playing back digital audio, switch the tracking servo on and off and adjust VR612 so that the difference between the DC voltage when the tracking servo is on and when it is off is no greater than 0 ± 0.1V.	 Oscilloscope Rear panel V: 10mV/div H: 5msec/div AC mode Audio output (mono) Probe (10:1) CH1 DC voltmeter V: 5mV/div H: 5msec/div DC mode 0V ± 0.1V Probe CH1 PLL OFFSET TP (IC901-31) (10:1)

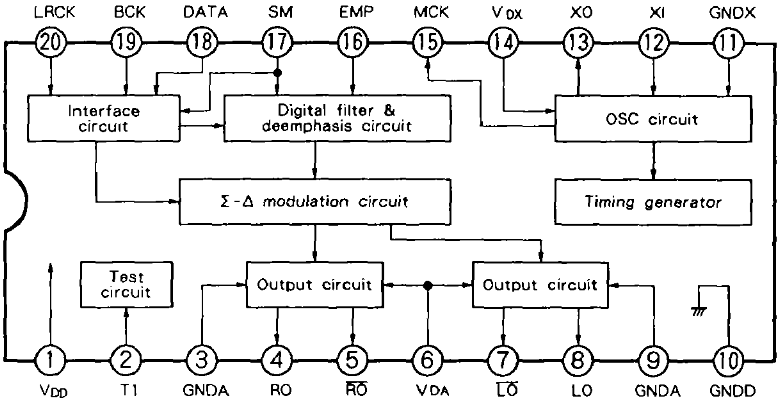
8. IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ TC9276P (IC201 : FTAU unit)

- **Σ - Δ modulation techniques D/A converter with 8-times over sampling digital filter**

• Block diagram


LRCK
BCK
DATA
SM
EMP
MCK
VDX
XO
XI
GNDX
20
19
18
17
16
15
14
13
12
11
Interface circuit
Digital filter & deemphasis circuit
OSC circuit
Σ-Δ modulation circuit
Timing generator
Test circuit
Output circuit
Output circuit
1
2
3
4
5
6
7
8
9
10
VDD
T1
GNDA
RO
$\overline{RO}$
VDA
$\overline{LO}$
LO
GNDA
GNDD

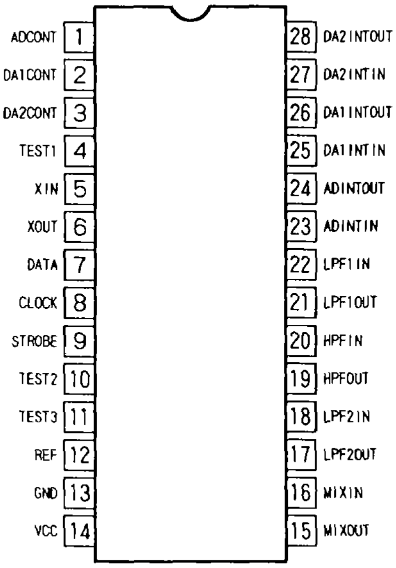
• Pin function

No.	Pin name	I/O	Function
1	VDD	–	Digital GND.
2	T1	I	Test pin. Usually, use for "L".
3	GNDA	–	Analog ground pin for R channel.
4	RO	O	Positive output for R channel data.
5	$\overline{\text{RO}}$	O	Negative output for R channel data.
6	VDA	–	Power supply for analog section.
7	$\overline{\text{LO}}$	O	Negative output for L channel data.
8	LO	O	Positive output for L channel data.
9	GNDA	–	Analog ground pin for L channel.
10	GNDD	–	Digital ground.
11	GNDX	–	Ground for crystal.
12	XI	I	Connect the crystal oscillator. Generates the clock for system.
13	XO	O	
14	VDX	–	Power supply for crystal.
15	MCK	O	System clock output.
16	EMP	I	Deemphasis filter control pin. "H" for deemphasis filter ON. "L" for OFF.
17	SM	I	Soft mute pin. "H" for soft mute ON. "L" for OFF.
18	DATA	I	Data input pin.
19	BCK	I	Bit clock input pin.
20	LRCK	I	LR clock input pin.

■ M65840SP (IC1012 : MAIN assy)

• One tip digital key controller

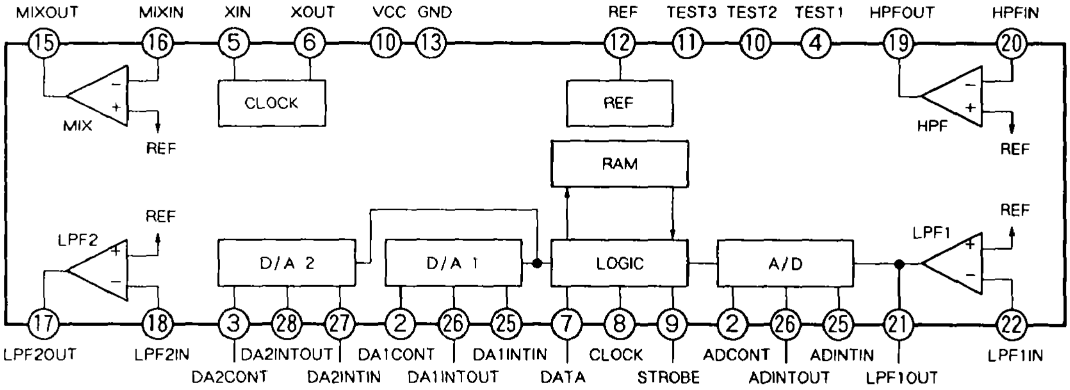
• Pin arrangement (Top view)


ADCONT 1
DA1CONT 2
DA2CONT 3
TEST1 4
XIN 5
XOUT 6
DATA 7
CLOCK 8
STROBE 9
TEST2 10
TEST3 11
REF 12
GND 13
VCC 14
28 DA2INTOUT
27 DA2INTIN
26 DA1INTOUT
25 DA1INTIN
24 ADINTOUT
23 ADINTIN
22 LPF1IN
21 LPF1OUT
20 HPFIN
19 HPFOUT
18 LPF2IN
17 LPF2OUT
16 MIXIN
15 MIXOUT

• Pin function

No.	Pin name	Name	Function
1	ADCONT	A/D control	Decide the proper time constant of the A/D conversion of the ADM system.
2	DA1CONT	D/A 1 control	Decide the proper time constant of the D/A 1 conversion of the ADM system.
3	DA2CONT	D/A 2 control	Decide the proper time constant of the D/A 2 conversion of the ADM system.
4	TEST1	Test	L : Normal mode , H : Test mode
5	XIN	Oscillator input	Connect the 16MHz ceramic filter.
6	XOUT	Oscillator output	
7	DATA	Data	Serial bus data input.
8	CLOCK	Clock	Serial bus clock input.
9	STROBE	Strobe	Serial bus strobe input.
10	TEST2	Test	Open.
11	TEST3	Test	Open.
12	REF	Reference	1/2 Vcc output. Connect the filter C.
13	GND	GND	Ground.
14	VCC	VCC	Power supply voltage.
15	MIXOUT	Mix output	Mix the low-pass signal with the key controlled and through high-pass signal.
16	MIXIN	Mix input	
17	LPF2OUT	Low-pass filter 2 output	Post filter after D/A conversion for key control.
18	LPF2IN	Low-pass filter 2 input	
19	HPFOUT	High-pass filter output	High-pass through filter for high-pass through.
20	HPFIN	High-pass filter input	
21	LPF1OUT	Low-pass filter 1 output	Pre-filter before A/D conversion for key control.
22	LPF1IN	Low-pass filter 1 input	
23	ADINTIN	A/D integrator input	Integrator for A/D conversion is constructed with the external capacitor.
24	AINTOUT	A/D integrator output	
25	DA1INTIN	D/A 1 integrator input	Integrator for D/A 1 conversion is constructed with the external capacitor.
26	DA1INTOUT	D/A 1 integrator output	
27	DA2INTIN	D/A 2 integrator input	Integrator for D/A 2 conversion is constructed with the external capacitor.
28	DA2INTOUT	D/A 2 integrator output	

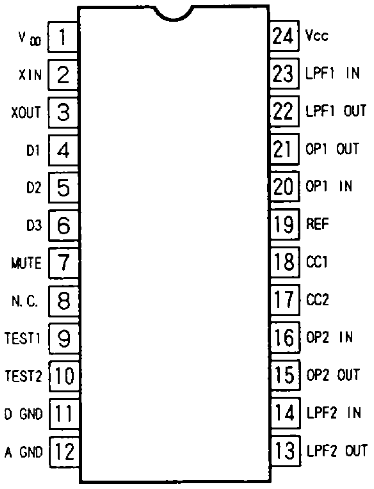
• Block diagram


MIXOUT
MIXIN
XIN
XOUT
VCC
GND
REF
TEST3
TEST2
TEST1
HPFOUT
HPFIN
15
16
5
6
10
13
12
11
10
4
19
20
MIX
REF
CLOCK
REF
RAM
HPF
REF
REF
LPF2
D/A 2
D/A 1
LOGIC
A/D
LPF1
REF
17
18
3
28
27
2
26
25
7
8
9
2
26
25
21
22
LPF2OUT
LPF2IN
DA2INTOUT
DA1CONT
DA1INTIN
CLOCK
ADCONT
ADINTIN
LPF1IN
DA2CONT
DA2INTIN
DA1INTOUT
DATA
STROBE
ADINTOUT
LPF1OUT

■ M65830AFP-TF (IC2102 : LD-FRONT assy)

• One tip digital echo

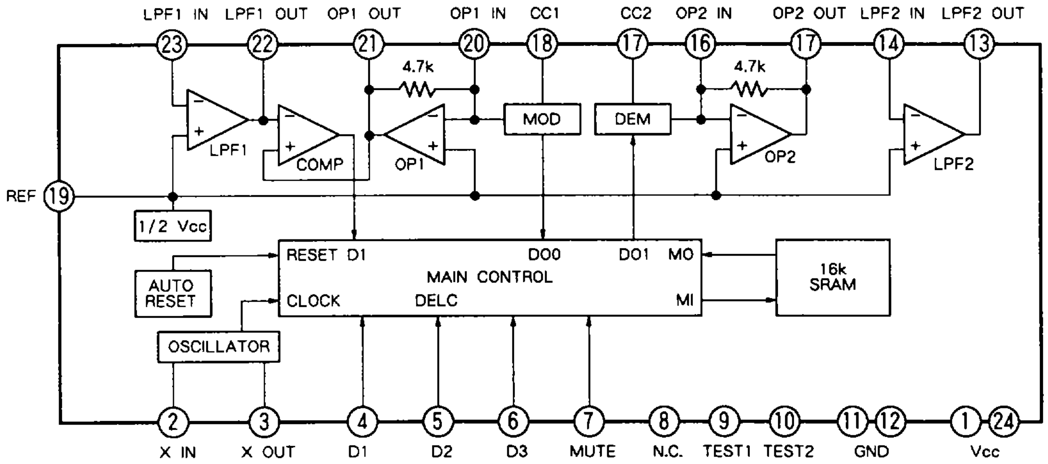
• Pin arrangement (Top view)


VDD 1
XIN 2
XOUT 3
D1 4
D2 5
D3 6
MUTE 7
N.C. 8
TEST1 9
TEST2 10
D GND 11
A GND 12
24 Vcc
23 LPF1 IN
22 LPF1 OUT
21 OP1 OUT
20 OP1 IN
19 REF
18 CC1
17 CC2
16 OP2 IN
15 OP2 OUT
14 LPF2 IN
13 LPF2 OUT

• Pin function

No.	Pin name	I/O	Name	Function
1	VDD	–	Digital VDD	Power supply voltage for digital.
2	XIN	I	Oscillator input	Connect the ceramic oscillator or external clock.
3	XOUT	O	Oscillator output	Connect the ceramic oscillator. Open at the external clock is used.
4	D1	I	Data 1	Delayed time setting data 1 input.
5	D2	I	Data 2	Delayed time setting data 2 input.
6	D3	I	Data 3	Delayed time setting data 3 input.
7	MUTE	I	Mute	Mute control (L : Mute)
8	N.C.	–	N.C.	Inhibit the external connection.
9	TEST1	I	Test 1	Normally set to L.
10	TEST2	I	Test 2	
11	D GND	–	Digital GND	GND for digital.
12	A GND	–	Analog GND	GND for analog.
13	LPF2 OUT	O	Low-pass filter 2 output	Output side low-pass filter is constructed with the external CR.
14	LPF2 IN	I	Low-pass filter 2 input	
15	OP2 OUT	O	OP amp. 2 output	Integrator for demodulation is constructed with the external capacitor and resistor.
16	OP2 IN	I	OP amp. 2 input	
17	CC2	–	Current control 2	Demodulator ADM control.
18	CC1	–	Current control 1	Modulator ADM control.
19	REF	–	Reference	Analog reference voltage = 1/2 Vcc
20	OP1 IN	I	OP amp. 1 input	Integrator for demodulation is constructed with the external capacitor and resistor.
21	OP1 OUT	O	OP amp. 1 output	
22	LPF1 OUT	O	Low-pass filter 1 output	Input side low-pass filter is constructed with the external capacitor and resistor.
23	LPF1 IN	I	Low-pass filter 1 input	
24	Vcc	–	Analog VDD	Power supply voltage for analog.

• Block diagram


LPF1 IN
LPF1 OUT
OP1 OUT
OP1 IN
CC1
CC2
OP2 IN
OP2 OUT
LPF2 IN
LPF2 OUT
4.7k
4.7k
LPF1
COMP
OP1
MOD
DEM
OP2
LPF2
REF
1/2 Vcc
RESET D1
DO0
DO1
MO
MAIN CONTROL
CLOCK
DELC
MI
AUTO RESET
OSCILLATOR
16k SRAM
X IN
X OUT
D1
D2
D3
MUTE
N.C.
TEST1
TEST2
GND
Vcc

■ PDG149A (IC1301:U.COM ASSY)(For KU, SD, SD/HO, SL and S/DF types)
■ PDG145A (IC1301:U.COM ASSY)(For HE, HE/FR, HEZI/DI and HB types)

•System Control Microcomputer

• Pin function

No.	Pin name	I/O	Function
1	FSX	I	Error rate check signal input of CLD section.
2	SHAKE	I	Handshake signal input with the CLD mecha. control. ("L" : Active)
3	AC IN	I	AC 50/60Hz pulse input.
4	REMOTE	I	Remote control signal input. ("L" : Active)
5	TUNED	I	TUNED input from the tuner section. ("L" : during reception)
6	PLL ST	O	Chip select output for prescaller IC of the tuner section. ("H" : Active)
7	MUTE	O	Muting output to the tuner section. (H : ON)
8	MONO	O	MONO output to the tuner section. ("H" : forced MONO)
9	STEREO	I	STEREO input from the tuner section. ("L" : Stereo broadcast)
10	SCK	I/O	Serial clock with the mecha. control and OSD of the CLD section.
11	SO	I	Serial data input from the mecha. control of the CLD section.
12	SI	O	Serial data output to the mecha. control and OSD of the CLD section.
13	XCS	O	Chip select output for OSC. ("L" : Active)
14, 15	–	O	Not used. (NC)
16	XRESET	O	Reset output to the CLD section. ("L" : Reset ON)
17-21	KI0-KI4	I	Key scan input. ("H" : Active)
22	LED(+/–)	O	"+/– " LED display output. ("H" : ON)
23	LED(SET)	O	"SET" LED display output. ("H" : ON)
24	XCLD POW	O	Power ON/OFF control output of the CLD section. ("L" : ON)
25	H.P. IN	I	Headphone in/out input. ("L" : during headphone is connected)
26	EXP ST	O	Strobe output for expansion of the function switch system. ("H" : Active)
27	DATA	O	Serial data output for expansion.
28	CLK	O	Serial clock output for expansion.
29	KEYCON ST	O	Strobe output to the key control IC. ("H" : Active)
30	MS PULSE	I	MS pulse input from the deck section.
31	0006ST	O	Strobe output to the sound area control IC. ("H" : Active)
32	9154ST	O	Strobe output for the electronic volume. ("H" : Active)
33	VOL DN	O	DOWN output of the electric volume. ("H" : Active)
34	VOL UP	O	UP output of the electric volume.("H" :Active)
35, 36	–	O	Not used. (NC)
37	F.MUTE	O	Front mute output. ("H" : ON)
38	RST	I	Reset input. ("L" : Active)
39	EXTAL	I	Connect to the ceramic resonator (10MHz).
40	XTAL	O	

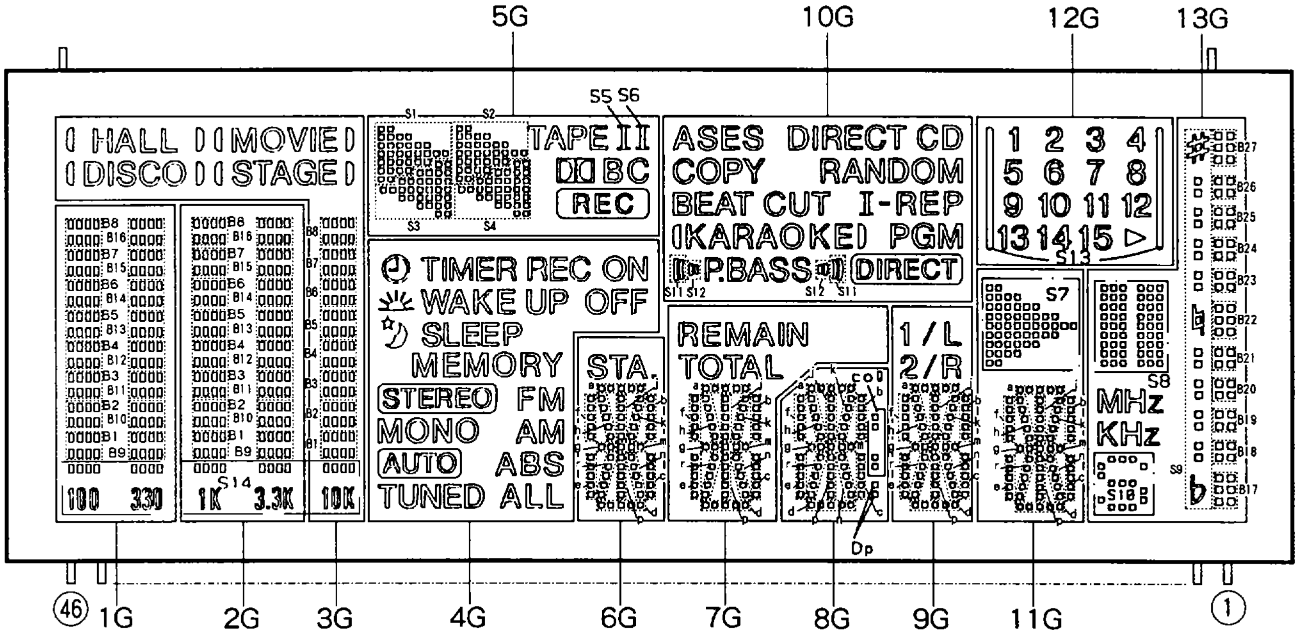
No.	Pin name	I/O	Function
41	Vss	–	Connect to GND.
42	–	O	Not used. (NC)
43	–	I	Connect to GND.
44	R.MUTE	O	Rear mute output. ("H" : Mute ON)
45	SPA IN	I	Signal input for detecting spectral analyzer. (A/D input pin)
46	AVref	–	Connect to +5V.
47	AVss	–	Connect to GND.
48	VTR SEL	O	VIDEO IN selection signal. ("H" : VIDEO selection)
49	STBY LED	O	Standby LED display output. ("H" : ON)
50	POWER	O	System power ON/OFF control. ("H" : power ON)
51	SPA INH	O	Spectral analyzer detecting frequency control output.
52	SPA B		
53	SPA A		
54	DOLBY ST	O	Strobe output for dolby prologic. ("H" : Active)
55	FL ST	O	Strobe output for FL driver of the prologic section. (H : Active)
56-59	16S-13S	O	FL segment output. ("H" : ON)
60-71	12S/KO11 │ 1S/KO0	O	FL segment and key scan outputs. ("H" : ON)
72-74	–	O	Not used. (NC)
75-87	1G-13G	O	FL grid outputs. ("H" : ON)
88	Vfdp	–	Connect to – 30V power supply for FL.
89	Vdd	–	Connect to backup power supply (+5V).
90	NC	–	Connect to +5V.
91	Vss	–	Connect to GND.
92	SOL1	O	Solenoid control for deck I mecha.("H" : ON)
93	SOL2	O	Solenoid control for deck II mecha.("H" : ON)
94	MOTOR	O	Motor control of the deck. ("H" : ON)
95	PULSE2	I	II mecha. reel pulse input of the deck.
96	PULSE1	I	I mecha. reel pulse input of the deck.
97	DECK ST	O	Strobe output for expansion of the deck section. ("H" : Active)
98	66311ST	O	Strobe output for expansion of the LED display. ("H" : Active)
99	SHAKE	O	Handshake signal output with the mecha. control. ("L" : Active)
100	EFLG	I	Error rate check signal input of the CLD section.

9. FL INFORMATION

■ RAW1138 (V1301 : U.COM ASSY)

- FL TUBE

• ANODE GRID ASSIGNMENT


5G
10G
12G
13G
S5 S6
HALL
MOVIE
DISCO
STAGE
TAPE II
BC
REC
ASES DIRECT CD
COPY RANDOM
BEAT CUT I-REP
KARAOKE PGM
P.BASS
DIRECT
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 ▷
TIMER REC ON
WAKE UP OFF
SLEEP
MEMORY
STEREO FM
MONO AM
AUTO ABS
TUNED ALL
STA.
REMAIN
TOTAL
1/L
2/R
MHz
KHz
100 330
1K 3.3K
10K
S1 S2 S3 S4 S7 S8 S9 S11 S12 S13 S14
B1–B27
Dp
⑯ 1G
2G
3G
4G
6G
7G
8G
9G
11G
①

• PIN CONNECTION

Pin No.	Connection	Pin No.	Connection
1	F1	24	NX
2	F1	25	NX
3	F1	26	NX
4	NP	27	P16
5	13G	28	P15
6	12G	29	P14
7	11G	30	P13
8	10G	31	P12
9	9G	32	P11
10	8G	33	P10
11	7G	34	P9
12	6G	35	P8
13	5G	36	P7
14	4G	37	P6
15	3G	38	P5
16	2G	39	P4
17	1G	40	P3
18	NC	41	P2
19	NC	42	P1
20	P17	43	NP
21	NX	44	F2
22	NX	45	F2
23	NX	46	F2

F1, F2 : Filament
NP : No pin
NX : No extend pin
NC : No connection
DL : Datum Line
1G~13G : Grid

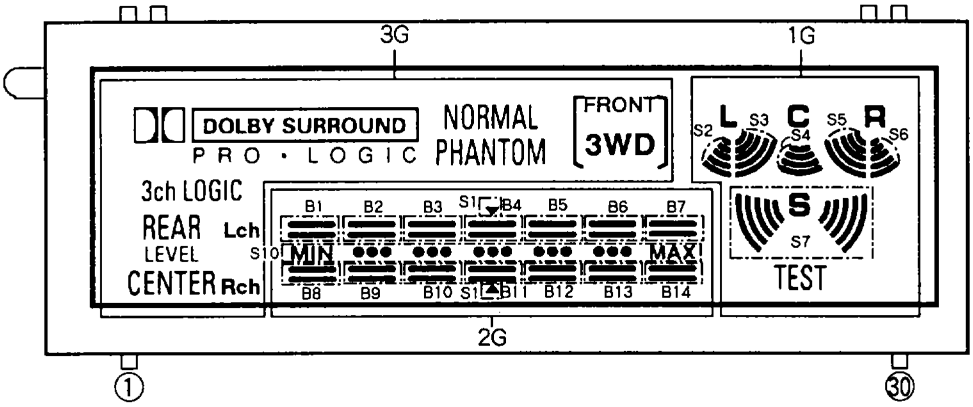
• ANODE CONNECTION

	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S8	**13**	a	–	a	a	a	a	–	**ON**	B8	B8	B8
P2	B27	**14**	j	**DIRECT**	j	j	j	j	–	**REC**	**▯(DISCO)▯**	B16	B16
P3	B26	**15**	h	S11	h	h	h	h	–	◷ **TIMER**	B7	B7	B7
P4	B25	▷	k	S12	k	k	k	k	–	**OFF**	**▯(STAGE)▯**	B15	B15
P5	B24	**9**	b	**P.BASS**	b	b	b	b	–	☀ **WAKE UP**	B6	B6	B6
P6	B23	**10**	f	**PGM**	f	f	f	f	–	☾ **SLEEP**	**DISCO**	B14	B14
P7	B22	**12**	m	**KARAOKE**	m	m	m	m	S4	**STEREO**	**STAGE**	B13	B13
P8	B21	**5**	g	**REP**	g	g	g	g	S3	**FM**	B4	B4	B4
P9	B20	**6**	c	**–**	c	c	c	c	DD	**MONO**	**▯(HALL)▯**	B12	B12
P10	B19	**7**	e	I	e	e	e	e	**B**	**AM**	B3	B3	B3
P11	B18	**8**	r	**BEAT CUT**	r	r	r	r	**C**	**AUTO**	**▯(MOVIE)▯**	B11	B11
P12	B17	**1**	n	**COPY**	n	n	n	n	S1	**ABS**	B2	B2	B2
P13	**MHz**	**2**	p	**RANDOM**	p	p	p	p	S2	**TUNED**	**HALL**	B10	B10
P14	**KHz**	**3**	d	**ASES**	d	d	d	d	**TAPE**	**ALL**	B1	B1	B1
P15	S9	**11**	S7	**▯(KARAOKE)▯**	**1/L**	col	**REMAIN**	**STA.**	**REC**	**MEMORY**	B5	B5	B5
P16	S10	**4**	–	**DIRECT CD**	**2/R**	Dp	**TOTAL**	–	S5	–	**MOVIE**	B9	B9
P17	–	S13	–	–	–	–	–	–	S6	–	S14	S14	S14

■ AAV7001 (V2001 : DOLBY-FRONT ASSY)(CL–J75LD ONLY)

• FL TUBE

• ANODE GRID ASSIGNMENT


3G
1G
DOLBY SURROUND
PRO · LOGIC
NORMAL
PHANTOM
FRONT
3WD
3ch LOGIC
REAR
Lch
LEVEL
CENTER
Rch
S10
MIN
MAX
B1
B2
B3
S1
B4
B5
B6
B7
B8
B9
B10
S1
B11
B12
B13
B14
S2
L
S3
C
S4
S5
R
S6
S
S7
TEST
2G
①
㉚

• PIN CONNECTION

Pin No.	Connection
1	F1
2	F1
3	NP
4	1G
5	2G
6	3G
7	P16
8	P15
9	P14
10	P13
11	P12
12	P11
13	P10
14	P9
15	P8
16	P7
17	P6
18	P5
19	P4
20	P3
21	P2
22	P1
23	NX
24	NX
25	NX
26	NX
27	NX
28	NP
29	F2
30	F2

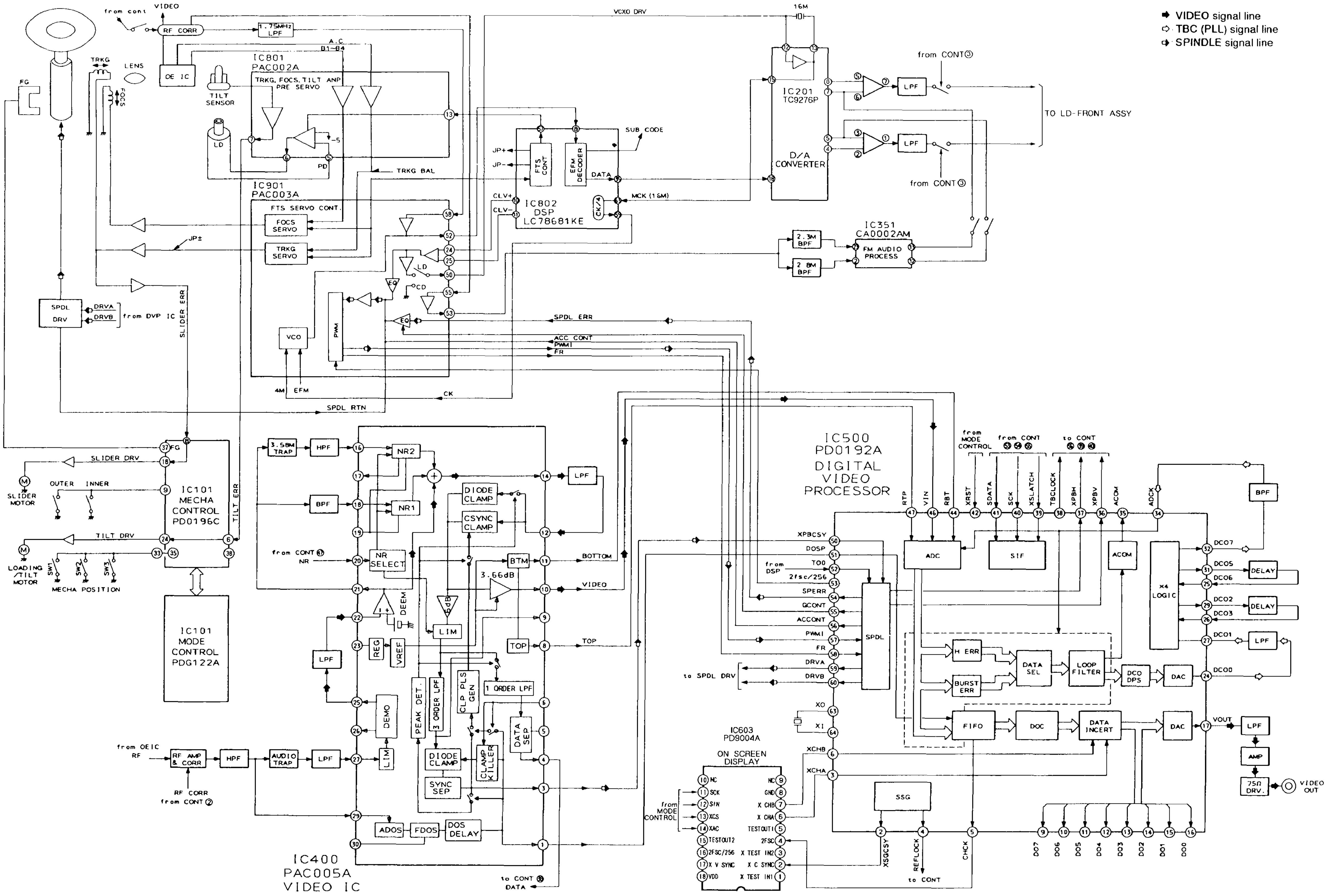
F1, F2 : Filament
NP : No pin
NX : No extend pin
DL : Datum Line
1G~3G : Grid

• ANODE CONNECTION

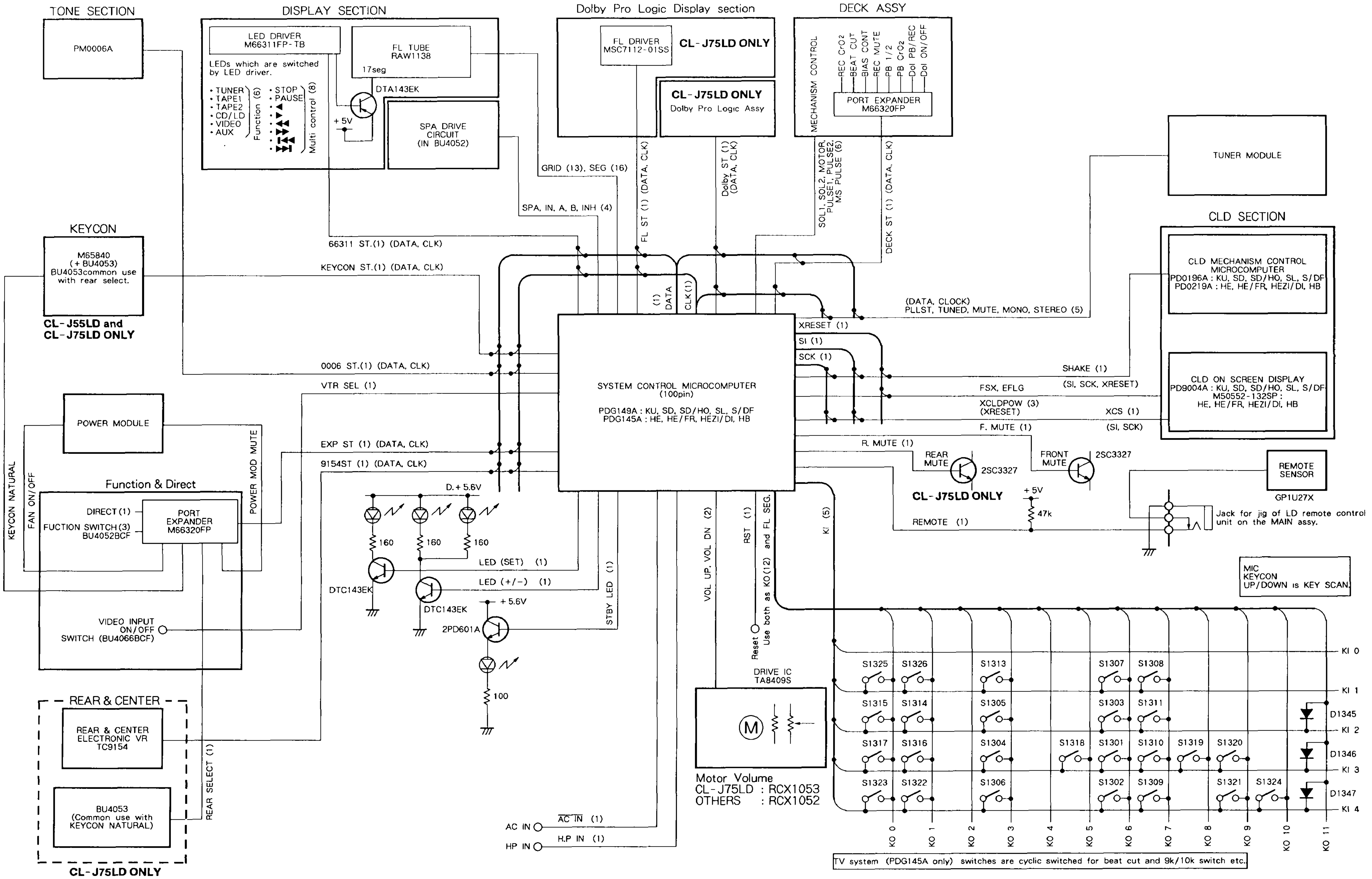
	3G	2G	1G
P1	DOLBY SURROUND	S10	L R
P2	PRO·LOGIC	B1	C
P3	3ch LOGIC	B2	S
P4	REAR	B3	TEST
P5	LEVEL	B4	S2
P6	CENTER	B5	S3
P7	Lch Rch	B6	S4
P8	NORMAL	B7	S5
P9	PHANTOM	B8	S6
P10	FRONT 3WD	B9	S7
P11	–	B10	–
P12	–	B11	–
P13	–	B12	–
P14	–	B13	–
P15	–	B14	–
P16	–	S1	–

10. BLOCK DIAGRAMS

10.1 OVERALL BLOCK DIAGRAM


➡ VIDEO signal line
⇨ TBC (PLL) signal line
➡ SPINDLE signal line
from cont
VIDEO
RF CORR
1.75MHz LPF
VCXO DRV
16M
A.C
B1~B4
TRKG
LENS
FOCS
FG
OE IC
TILT SENSOR
LD
IC801
PAC002A
TRKG, FOCS, TILT AMP
PRE SERVO
PD
TRKG BAL
IC901
PAC003A
FTS SERVO CONT.
FOCS SERVO
TRKG SERVO
JP±
SPDL DRV
DRVA
DRVB
from DVP IC
SLIDER ERR
VCO
PWM
4M
EFM
CK
SPDL RTN
LD
CD
EQ
JP+
JP−
FTS CONT
EFM DECODER
SUB CODE
DATA
MCK (16M)
CLV+
CLV−
CK/4
IC802
DSP
LC78681KE
SPDL ERR
ACC CONT
PWM
FR
IC201
TC9276P
D/A CONVERTER
from CONT③
LPF
TO LD-FRONT ASSY
IC351
CA0002AM
FM AUDIO PROCESS
2.3M BPF
2.8M BPF
SLIDER DRV
SLIDER MOTOR
OUTER
INNER
IC101
MECHA CONTROL
PD0196C
TILT DRV
TILT ERR
LOADING /TILT MOTOR
SW1
SW2
SW3
MECHA POSITION
IC101
MODE CONTROL
PDG122A
3.58M TRAP
HPF
BPF
NR2
NR1
from CONT⑰
NR
NR SELECT
DIODE CLAMP
CSYNC CLAMP
BTM
3.66dB
DEEM
LIM
6dB
REG
VREF
TOP
PEAK DET.
3 ORDER LPF
CLP PLS GEN
1 ORDER LPF
DEMO
DATA SEP
CLAMP KILLER
SYNC SEP
ADOS
FDOS
DOS DELAY
from OEIC RF
RF AMP & CORR
AUDIO TRAP
RF CORR from CONT②
IC400
PAC005A
VIDEO IC
to CONT ⑧
DATA
BOTTOM
VIDEO
TOP
IC500
PD0192A
DIGITAL VIDEO PROCESSOR
from MODE CONTROL
from CONT ⑤⑥⑦
to CONT ⑧⑨⑩
RTP
VIN
RBT
XRST
SDATA
SCK
XSLATCH
TBCLOCK
XPBH
XPBV
ACOM
ADCK
XPBCSY
DOSP
from DSP
TOO
2fsc/256
SPERR
GCONT
ACCONT
PWMI
FR
DRVA
DRVB
to SPDL DRV
SPDL
ADC
SIF
ACOM
X4 LOGIC
H ERR
BURST ERR
DATA SEL
LOOP FILTER
DCO DPS
DAC
FIFO
DOC
DATA INCERT
XO
X1
XCHB
XCHA
SSG
XSGCSY
REFLOCK
CHCK
to CONT
DCO7
DCO5
DCO6
DCO2
DCO3
DCO1
DCO0
DELAY
VOUT
AMP
75Ω DRV.
VIDEO OUT
DO7
DO6
DO5
DO4
DO3
DO2
DO1
DO0
IC603
PD9004A
ON SCREEN DISPLAY
from MODE CONTROL
NC
SCK
SIN
XCS
XAC
TESTOUT2
2FSC/256
X V SYNC
VDD
GND
X CHB
X CHA
TESTOUT1
2FSC
X TEST IN2
X C SYNC
X TEST IN1

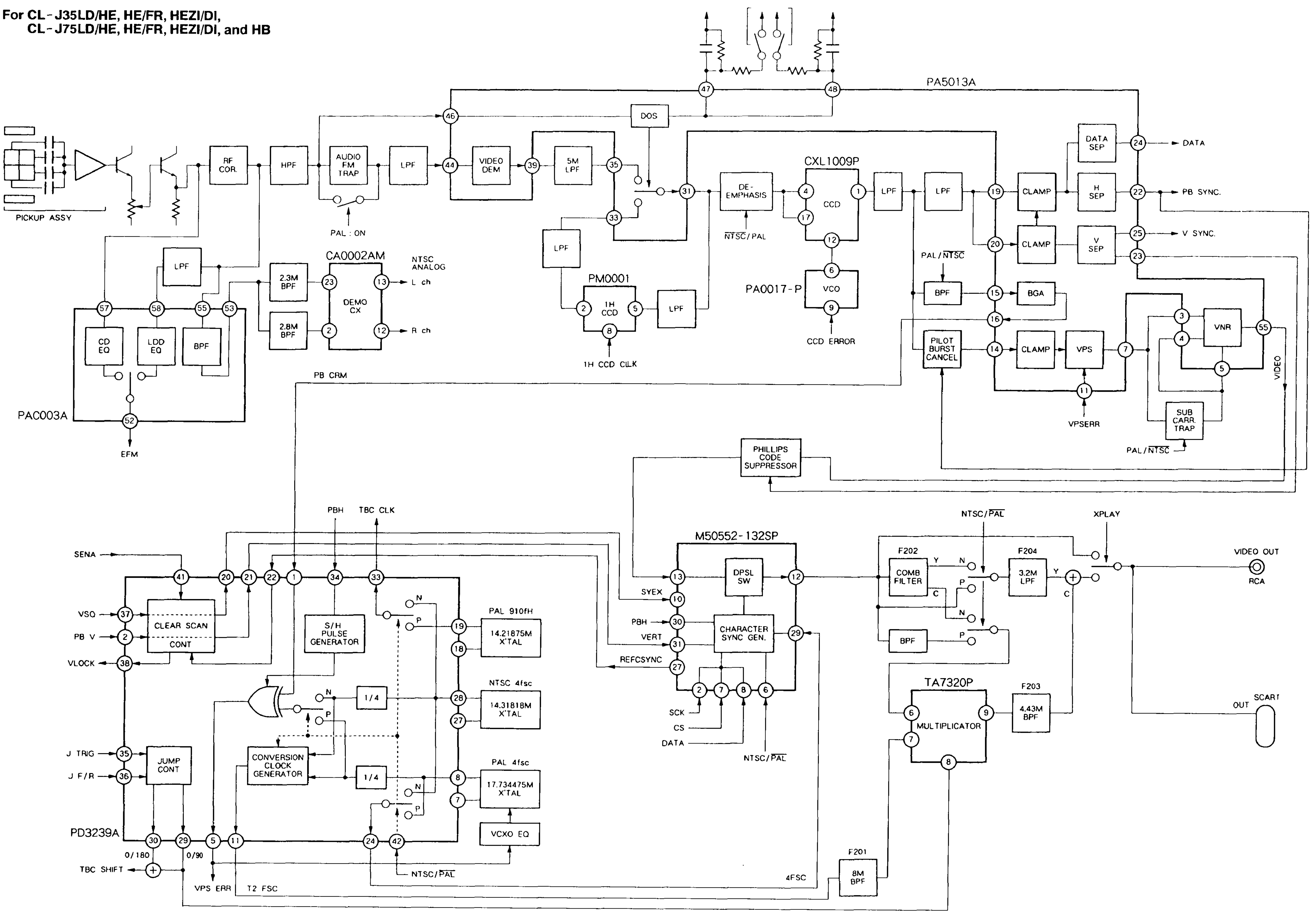
10.2 MICROCOMPUTER CONNECTION BLOCK DIAGRAM


TONE SECTION
PM0006A
DISPLAY SECTION
LED DRIVER M66311FP-TB
FL TUBE RAW1138
17seg
LEDs which are switched by LED driver.
• TUNER • TAPE1 • TAPE2 • CD/LD • VIDEO • AUX
Function (6)
• STOP • PAUSE
Multi control (8)
DTA143EK
+5V
SPA DRIVE CIRCUIT (IN BU4052)
Dolby Pro Logic Display section
FL DRIVER MSC7112-01SS
CL-J75LD ONLY
CL-J75LD ONLY
Dolby Pro Logic Assy
DECK ASSY
MECHANISM CONTROL
REC CrO2
BEAT CUT
BIAS CONT
REC MUTE
PB 1/2
PB CrO2
Dol PB/REC
Dol ON/OFF
PORT EXPANDER M66320FP
GRID (13), SEG (16)
SPA, IN, A, B, INH (4)
FL ST (1) (DATA, CLK)
Dolby ST (1) (DATA, CLK)
SOL1, SOL2, MOTOR, PULSE1, PULSE2, MS PULSE (6)
DECK ST (1) (DATA, CLK)
TUNER MODULE
CLD SECTION
CLD MECHANISM CONTROL MICROCOMPUTER
PD0196A : KU, SD, SD/HO, SL, S/DF
PD0219A : HE, HE/FR, HEZI/DI, HB
CLD ON SCREEN DISPLAY
PD9004A : KU, SD, SD/HO, SL, S/DF
M50552-132SP : HE, HE/FR, HEZI/DI, HB
KEYCON
M65840 (+BU4053)
BU4053common use with rear select.
CL-J55LD and CL-J75LD ONLY
66311 ST.(1) (DATA, CLK)
KEYCON ST.(1) (DATA, CLK)
(1)
DATA
CLK(1)
(DATA, CLOCK)
PLLST, TUNED, MUTE, MONO, STEREO (5)
XRESET (1)
SI (1)
SCK (1)
SHAKE (1)
(SI, SCK, XRESET)
FSX, EFLG
XCLDPOW (3) (XRESET)
XCS (1)
F. MUTE (1)
(SI, SCK)
0006 ST.(1) (DATA, CLK)
VTR SEL (1)
SYSTEM CONTROL MICROCOMPUTER (100pin)
PDG149A : KU, SD, SD/HO, SL, S/DF
PDG145A : HE, HE/FR, HEZI/DI, HB
POWER MODULE
KEYCON NATURAL
FAN ON/OFF
POWER MOD MUTE
EXP ST (1) (DATA, CLK)
9154ST (1) (DATA, CLK)
R. MUTE (1)
REAR MUTE
2SC3327
FRONT MUTE
2SC3327
CL-J75LD ONLY
+5V
47k
REMOTE (1)
REMOTE SENSOR
GP1U27X
Jack for jig of LD remote control unit on the MAIN assy.
Function & Direct
DIRECT (1)
FUCTION SWITCH (3) BU4052BCF
PORT EXPANDER M66320FP
D.+5.6V
160
160
160
LED (SET) (1)
LED (+/−) (1)
DTC143EK
DTC143EK
+5.6V
2PD601A
100
STBY LED (1)
VOL UP, VOL DN (2)
RST (1)
Use both as KO(12) and FL SEG.
Reset
KI (5)
MIC KEYCON UP/DOWN is KEY SCAN.
VIDEO INPUT ON/OFF SWITCH (BU4066BCF)
REAR & CENTER
REAR & CENTER ELECTRONIC VR TC9154
BU4053 (Common use with KEYCON NATURAL)
REAR SELECT (1)
CL-J75LD ONLY
DRIVE IC TA8409S
M
Motor Volume
CL-J75LD : RCX1053
OTHERS : RCX1052
AC IN
AC IN (1)
HP IN
H.P IN (1)
S1325 S1326 S1313 S1307 S1308
S1315 S1314 S1305 S1303 S1311
S1317 S1316 S1304 S1318 S1301 S1310 S1319 S1320
S1323 S1322 S1306 S1302 S1309 S1321 S1324
D1345
D1346
D1347
KI 0
KI 1
KI 2
KI 3
KI 4
KO 0 KO 1 KO 2 KO 3 KO 4 KO 5 KO 6 KO 7 KO 8 KO 9 KO 10 KO 11
TV system (PDG145A only) switches are cyclic switched for beat cut and 9k/10k switch etc.

* For the switches function and destination switch diode, refer to the schematic diagram.

10.3 VIDEO SECTION

For CL-J35LD/HE, HE/FR, HEZI/DI,
CL-J75LD/HE, HE/FR, HEZI/DI, and HB


NTSC : ON
PA5013A
PICKUP ASSY
RF COR.
HPF
AUDIO FM TRAP
LPF
VIDEO DEM
5M LPF
DOS
PAL : ON
46
44
47
48
39
35
33
31
DE-EMPHASIS
NTSC/PAL
CXL1009P
CCD
LPF
LPF
PA0017-P
VCO
CCD ERROR
LPF
PM0001
1H CCD
1H CCD CLK
LPF
CA0002AM
NTSC ANALOG
2.3M BPF
2.8M BPF
DEMO CX
L ch
R ch
LPF
PAC003A
CD EQ
LDD EQ
BPF
57
58
55
53
52
EFM
PB CRM
DATA SEP
H SEP
V SEP
CLAMP
CLAMP
CLAMP
DATA
PB SYNC.
V SYNC.
PAL/NTSC
BPF
BGA
PILOT BURST CANCEL
VPS
VPSERR
VNR
SUB CARR. TRAP
PAL/NTSC
VIDEO
PHILLIPS CODE SUPPRESSOR
PBH
TBC CLK
SENA
VSQ
PB V
VLOCK
CLEAR SCAN CONT
S/H PULSE GENERATOR
PAL 910fH
14.21875M X'TAL
NTSC 4fsc
14.31818M X'TAL
PAL 4fsc
17.734475M X'TAL
VCXO EQ
1/4
1/4
CONVERSION CLOCK GENERATOR
J TRIG
J F/R
JUMP CONT
PD3239A
0/180
0/90
TBC SHIFT
VPS ERR
T2 FSC
NTSC/PAL
4FSC
M50552-132SP
DPSL SW
CHARACTER SYNC GEN.
SYEX
PBH
VERT
REFCSYNC
SCK
CS
DATA
NTSC/PAL
NTSC/PAL
XPLAY
F202
COMB FILTER
F204
3.2M LPF
BPF
TA7320P
MULTIPLICATOR
F203
4.43M BPF
F201
8M BPF
VIDEO OUT
RCA
SCART
OUT
N
P
Y
C

11. FOR CL-J35LD/SD, SD/HO, SL, HE, HE/FR,HEZI/DI, CL-J55LD/SD, SD/HO, SL, S/DF, CL-J75LD/SD, SL, HE, HE/FR, HEZI/DI AND HB

11.1 CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10' → 561 ········· RD1/8PM$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 × 10' → 473 ········· RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 ········· RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 ········· RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω → 562 × 10' → 5621 ········· RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

■ LIST OF WHOLE PCB ASSEMBLIES

For CL–J35LD/SD, SD/HO, SL, HE, HE/FR, HEZI/DI, CL–J55LD/SD, SD/HO, SL, S/DF, CL–J75LD/SD, SL, HE, HE/FR, HEZI/DI and HB

Mark	PCB Assemblies	Part No.															Remarks
		CL-J35LD /KU	CL-J35LD /SD, SD/HO	CL-J35LD /SL	CL-J35LD /HE	CL-J35LD /HE/FR	CL-J35LD /HEZI/DI	CL-J55LD /SD, SD/HO	CL-J55LD /SL	CL-J55LD /S/DF	CL-J75LD /SD	CL-J75LD /SL	CL-J75LD /HE	CL-J75LD /HE/FR	CL-J75LD /HEZI/DI	CL-J75LD /HB	
NSP	AF ASSY	RWM1833	RWM1748	RWM1748	RWM1750	RWM1750	RWM1751	RWM1752	RWM1752	RWM1752	RWM1735	RWM1735	RWM1834	RWM1834	RWM1754	RWM1834	
	├─ MAIN ASSY	RWZ3619	RWZ3330	RWZ3330	RWZ3596	RWZ3596	RWZ3332	RWZ3333	RWZ3333	RWZ3333	RWZ3314	RWZ3314	RWZ3314	RWZ3314	RWZ3334	RWZ3314	
	├─ VOL ASSY	RWZ3593	RWZ3587	RWZ3587	RWZ3594	RWZ3594	RWZ3594	RWZ3593	RWZ3593	RWZ3593	RWZ3315	RWZ3315	RWZ3595	RWZ3595	RWZ3595	RWZ3595	
	├─ DECK ASSY	RWZ3577	RWZ3337	RWZ3337	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	RWZ3577	
NSP	└─ TRANS ASSY	RWZ3317	RWZ3597	RWZ3597	RWZ3597	RWZ3597	RWZ3597	RWZ3597	RWZ3597	RWZ3597	RWZ3592	RWZ3592	RWZ3592	RWZ3592	RWZ3592	RWZ3592	
NSP	DISP ASSY	RWM1773	RWM1757	RWM1843	RWM1758	RWM1758	RWM1758	RWM1759	RWM1844	RWM1749	RWM1734	RWM1845	RWM1760	RWM1760	RWM1760	RWM1760	
NSP	├─ PRIMARY ASSY	RWZ3377	RWZ3325	RWZ3620	RWZ3339	RWZ3339	RWZ3339	RWZ3325	RWZ3620	RWZ3325	RWZ3325	RWZ3620	RWZ3339	RWZ3339	RWZ3339	RWZ3339	
	├─ U.COM ASSY	RWZ3376	RWZ3341	RWZ3341	RWZ3342	RWZ3342	RWZ3342	RWZ3318	RWZ3318	RWZ3470	RWZ3319	RWZ3319	RWZ3343	RWZ3343	RWZ3343	RWZ3343	
NSP	├─ H.P. ASSY	RWZ3351	RWZ3351	RWZ3351	RWZ3351	RWZ3351	RWZ3351	RWZ3351	RWZ3351	RWZ3351	RWZ3316	RWZ3316	RWZ3316	RWZ3316	RWZ3316	RWZ3316	
	├─ LD-FRONT ASSY	RWZ3344	RWZ3352	RWZ3352	RWZ3344	RWZ3344	RWZ3344	RWZ3321	RWZ3321	RWZ3321	RWZ3321	RWZ3321	RWZ3321	RWZ3321	RWZ3321	RWZ3321	
	├─ SPDR UNIT	RWZ3359	RWZ3359	RWZ3359	RWZ3360	RWZ3360	RWZ3360	RWZ3359	RWZ3359	RWZ3359	RWZ3359	RWZ3359	RWZ3360	RWZ3360	RWZ3360	RWZ3360	
	├─ MIC ASSY	RWZ3346	RWZ3361	RWZ3361	RWZ3346	RWZ3346	RWZ3346	RWZ3322	RWZ3322	RWZ3322	RWZ3322	RWZ3322	RWZ3322	RWZ3322	RWZ3322	RWZ3322	
NSP	├─ L-LED ASSY	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	RWZ3323	RWZ3323	RWZ3323	RWZ3323	RWZ3323	RWZ3323	*
NSP	├─ R-LED ASSY	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	RWZ3324	RWZ3324	RWZ3324	RWZ3324	RWZ3324	RWZ3324	*
	└─ DOLBY-FRONT ASSY	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	RWZ3327	RWZ3327	RWZ3327	RWZ3327	RWZ3327	RWZ3327	*
	MOTH UNIT	RWM1764	RWM1764	RWM1764	Not used	Not used	Not used	RWM1765	RWM1765	RWM1765	RWM1765	RWM1765	Not used	Not used	Not used	Not used	
	├─ FTAU UNIT	RWZ3357	RWZ3357	RWZ3357	Not used	Not used	Not used	RWZ3357	RWZ3357	RWZ3357	RWZ3357	RWZ3357	Not used	Not used	Not used	Not used	
	└─ VIMC UNIT	RWZ3358	RWZ3358	RWZ3358	Not used	Not used	Not used	RWZ3348	RWZ3348	RWZ3348	RWZ3348	RWZ3348	Not used	Not used	Not used	Not used	
	FTAU UNIT	Not used	Not used	Not used	RWM1766	RWM1766	RWM1766	Not used	Not used	Not used	Not used	Not used	RWM1766	RWM1766	RWM1766	RWM1766	
	VSPT UNIT	Not used	Not used	Not used	RWM1762	RWM1762	RWM1762	Not used	Not used	Not used	Not used	Not used	RWM1762	RWM1762	RWM1762	RWM1762	*
	├─ VSCB UNIT	Not used	Not used	Not used	RWZ3349	RWZ3349	RWZ3349	Not used	Not used	Not used	Not used	Not used	RWZ3349	RWZ3349	RWZ3349	RWZ3349	*
	└─ PTCB UNIT	Not used	Not used	Not used	RWZ3350	RWZ3350	RWZ3350	Not used	Not used	Not used	Not used	Not used	RWZ3350	RWZ3350	RWZ3350	RWZ3350	*
	FM/AM TUNER MODULE	AXQ1012	AXQ1012	AXQ1012	AXQ1013	AXQ1013	AXQ1014	AXQ1012	AXQ1012	AXQ1016	AXQ1012	AXQ1012	AXQ1013	AXQ1013	AXQ1014	AXQ1013	
	POWER AMP. MODULE	AXQ7018	AXQ7018	AXQ7018	AXQ7018	AXQ7018	AXQ7018	AXQ7018	AXQ7018	AXQ7018	AXQ7020	AXQ7020	AXQ7020	AXQ7020	AXQ7020	AXQ7020	
	├─ FRONT 50W ASSY	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	AWZ7517	
	├─ REGULATOR ASSY	AWZ7560	AWZ7560	AWZ7560	AWZ7560	AWZ7560	AWZ7560	AWZ7560	AWZ7560	AWZ7560	Not used	Not used	Not used	Not used	Not used	Not used	
	└─ REAR REGULATOR ASSY	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	AWZ7559	AWZ7559	AWZ7559	AWZ7559	AWZ7559	AWZ7559	*
	PRO-LOGIC ASSY	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	Not used	AWX7009	AWX7009	AWX7009	AWX7009	AWX7009	AWX7009	*

* : Refer to "3. EXPLODED VIEWS, PACKING AND PARTS LIST".

■ CONTRAST OF MISCELLANEOUS PARTS

(1) For CL–J35LD/SD, SD/HO, SL, HE, HE/FR and HEZI/DI

CL–J35LD/SD, SD/HO, SL, HE, HE/FR, HEZI/DI and CL–J35LD/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.							Remarks
		CL–J35LD /KU	CL–J35LD /SD	CL–J35LD /SD/HO	CL–J35LD /SL	CL–J35LD /HE	CL–J35LD /HE/FR	CL–J35LD HEZI/DI	
	● Exterior and disc tray section								
	Badge	RAM1010	RAM1010	RAM1010	RAM1010	RAM1006	RAM1006	RAM1006	
	65 label	ORW1069	Not used	Not used	Not used	Not used	Not used	Not used	
	Caution label	Not used	Not used	Not used	Not used	VRW1094	VRW1094	VRW1094	*
	● Main section (1/2)								
⚠	AC power cord	PDG1015	PDG1056	VDG1062	PDG1003	PDG1003	PDG1003	PDG1003	
	Strain relief	CM-22C	CM-22B	CM-22B	CM-22B	CM-22B	CM-22B	CM-22B	
⚠	Fuse (FU1 : T4AL250V)	Not used	AEK1060	AEK1060	AEK1060	Not used	Not used	Not used	
⚠	Fuse (FU1 : T1.25AL250V)	Not used	Not used	Not used	Not used	REK-101	REK-101	REK-101	
⚠	Fuse (FU1 : 2.5A)	REK1079	Not used	Not used	Not used	Not used	Not used	Not used	
⚠	Fuse (FU2, FU3 : T1.25AL250V)	Not used	REK-101	REK-101	REK-101	Not used	Not used	Not used	*
⚠	Fuse (FU4, FU5 : T2.5AL250V)	Not used	AEK1058	AEK1058	AEK1058	AEK1058	AEK1058	AEK1058	
⚠	Fuse (FU4, FU5 : 4A)	REK1082	Not used	Not used	Not used	Not used	Not used	Not used	
⚠	Fuse (FU6 : T1.6A)	Not used	AEK1056	AEK1056	AEK1056	AEK1056	AEK1056	AEK1056	*
	Ceramic capacitor (C9001)	Not used	Not used	Not used	Not used	Not used	Not used	CCDSL151J50	*
	Mic knob (MIC LEVEL 1)	Not used	RAC1936	RAC1936	RAC1936	Not used	Not used	Not used	*
	Tapping screw	Not used	Not used	Not used	Not used	Not used	Not used	RBA-090	*
	Caution label	Not used	Not used	Not used	PRW1018	Not used	Not used	Not used	*
	Caution label (G)	Not used	Not used	Not used	VRW-329	VRW-329	VRW-329	VRW-329	*
NSP	Label (Fuse)	RRW1199	Not used	Not used	Not used	Not used	Not used	Not used	
NSP	Label (Fuse)	RRW1198	Not used	Not used	Not used	Not used	Not used	Not used	
	● Main section (2/2)								
⚠	Voltage selector (AC115/120/220-230/240V)	Not used	AKX-507	AKX-507	AKX-507	Not used	Not used	Not used	*
	Lead card 26P	RDD1315	RDD1315	RDD1315	RDD1315	Not used	Not used	Not used	
	Lead card 26P	Not used	Not used	Not used	Not used	RDD1329	RDD1329	RDD1329	*
	Lead card 30P	Not used	Not used	Not used	Not used	RDD1320	RDD1320	RDD1320	*
NSP	Rear panel	RNA1940	RNA1935	RNA1935	RNA1936	RNA1941	RNA1941	RNA1942	
NSP	Protect sheet	Not used	Not used	Not used	Not used	REC1257	REC1257	REC1257	*
	PCB holder	Not used	Not used	Not used	Not used	VEC1624	VEC1624	VEC1624	*
	● Front panel section (2/2)								
NSP	Getter	RAX1023	RAX1020	RAX1020	RAX1020	RAX1018	RAX1018	RAX1019	
	Front panel	REA1174	REA1172	REA1172	REA1172	REA1173	REA1173	REA1173	
	● Packing								
	FM Antenna	ADH1017	ADH1017	ADH1017	ADH1017	Not used	Not used	Not used	
	FM antenna assy	Not used	Not used	Not used	Not used	ADH1019	ADH1019	ADH1019	
	Pin jack connection plug	Not used	AKM1061	AKM1061	AKM1061	Not used	Not used	Not used	*
	Packing case	RHG1661	RHG1658	RHG1658	RHG1658	RHG1662	RHG1662	RHG1662	
	Operating instructions (English/Spanish/Chinese)	RRE1117	RRE1117	RRE1117	RRE1117	Not used	Not used	Not used	
	Operating instructions (German/Italian)	Not used	Not used	Not used	Not used	RRD1158	Not used	RRD1158	*
	Operating instructions (English)	Not used	Not used	Not used	Not used	RRB1158	Not used	Not used	*
	Operating instructions (Dutch/Swedish/Spanish/Portuguese)	Not used	Not used	Not used	Not used	RRD1159	Not used	Not used	*
	Operating instructions (French)	Not used	Not used	Not used	Not used	RRD1161	RRD1161	Not used	*
	Caution sheet (UC)	VRR1020	VRR1020	VRR1020	VRR1020	Not used	Not used	Not used	

* : Refer to "3. EXPLODED VIEWS, PACKING AND PARTS LIST".

(2) For CL–J55LD/SD, SD/HO, SL and S/DF

CL–55LD/SD, SD/HO, SL, S/DF and CL–J35LD/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.					Remarks
		CL–J35LD /KU	CL–J55LD /SD	CL–J55LD /SD/HO	CL–J55LD /SL	CL–J55LD /S/DF	
	● Exterior and disc tray section						
	65 label	ORW1069	Not used	Not used	Not used	Not used	
	● Main section (1/2)						
⚠	AC power cord	PDG1015	PDG1056	VDG1062	PDG1003	PDG1056	
	Strain relief	CM-22C	CM-22B	CM-22B	CM-22B	CM-22B	
⚠	Power transformer (AC120V or AC110-115/120-127/220-230/240V)	RTT1282	RTT1282	RTT1282	RTT1282	Not used	
⚠	Power transformer (AC110-115/120-127/220-230/240V)	Not used	Not used	Not used	Not used	RTT1281	
⚠	Fuse (FU1 : T4AL250V)	Not used	AEK1060	AEK1060	AEK1060	AEK1060	
⚠	Fuse (FU1 : 2.5A)	REK1079	Not used	Not used	Not used	Not used	
⚠	Fuse (FU2, FU3 : T1.25AL250V)	Not used	REK-101	REK-101	REK-101	REK-101	*
⚠	Fuse (FU4, FU5 : T2.5AL250V)	Not used	AEK1058	AEK1058	AEK1058	AEK1058	
⚠	Fuse (FU4, FU5 : 4A)	REK1082	Not used	Not used	Not used	Not used	
⚠	Fuse (FU6 : T1.6A)	Not used	AEK1056	AEK1056	AEK1056	AEK1056	*
	Caution label	Not used	Not used	Not used	PRW1018	Not used	*
	Caution label (G)	Not used	Not used	Not used	VRW-329	Not used	*
NSP	Label (Fuse)	RRW1199	Not used	Not used	Not used	Not used	
NSP	Label (Fuse)	RRW1198	Not used	Not used	Not used	Not used	
	Mic knob (ECHOR LEVEL, MIC LEVEL 1)	Not used	RAC1936	RAC1936	RAC1936	RAC1936	*
	● Main section (2/2)						
⚠	Voltage selector (AC115/120/220-230/240V)	Not used	AKX-507	AKX-507	AKX-507	AKX-507	*
NSP	Rear panel	RNA1940	RNA1937	RNA1937	RNA1938	RNA1937	
	● Front panel section (2/2)						
NSP	Getter	RAX1023	RAX1021	RAX1021	RAX1021	RAX1021	
	Front panel	REA1174	REA1175	REA1175	REA1175	REA1175	
	● Packing						
	Packing case	RHG1661	RHG1659	RHG1659	RHG1659	RHG1659	

* : Refer to "3. EXPLODED VIEWS, PACKING AND PARTS LIST".

(3) For CL–J75LD/SD, SL, HE, HE/FR, HEZI/DI and HB

CL–J75LD/SD, SL, HE, HE/FR, HEZI/DI, HB and CL–J35LD/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.							Remarks
		CL–J35LD /KU	CL–J75LD /SD	CL–J75LD /SL	CL–J75LD /HE	CL–J75LD /HE/FR	CL–J75LD HEZI/DI	CL–J75LD /HB	
	● Exterior and disc tray section								
	Bonnet	REA1143	REA1154	REA1154	REA1154	REA1154	REA1154	REA1154	
	Badge	RAM1010	RAM1010	RAM1010	RAM1006	RAM1006	RAM1006	RAM1006	
	65 label	ORW1069	Not used	Not used	Not used	Not used	Not used	Not used	
NSP	Label (Fuse)	RRW1199	Not used	Not used	Not used	Not used	Not used	Not used	
NSP	Label (Fuse)	RRW1198	Not used	Not used	Not used	Not used	Not used	Not used	
	Caution label	Not used	Not used	Not used	PRW1094	PRW1094	PRW1094	Not used	*

* : Refer to "3. EXPLODED VIEWS, PACKING AND PARTS LIST".

Mark	Symbol & Description	Part No.							Remarks
		CL–J35LD /KU	CL–J75LD /SD	CL–J75LD /SL	CL–J75LD /HE	CL–J75LD /HE/FR	CL–J75LD HEZI/DI	CL–J75LD /HB	
	● Main section (1/2)								
⚠	AC power cord	PDG1015	PDG1056	PDG1003	PDG1003	PDG1003	PDG1003	PDG1055	
⚠	Fuse (T5A)(For AC power cord)	Not used	Not used	Not used	Not used	Not used	Not used	PEK1003	*
	Strain relief	CM-22C	CM-22B	CM-22B	CM-22B	CM-22B	CM-22B	CM-22B	
⚠	Power transformer (AC120V)	RTT1282	Not used	Not used	Not used	Not used	Not used	Not used	
⚠	Power transformer (AC110-115/120-127/220-230/240V)	Not used	RTT1283	RTT1283	RTT1283	RTT1283	RTT1283	RTT1283	
⚠	Fuse (FU1 : T4AL250V)	Not used	AEK1060	AEK1060	Not used	Not used	Not used	Not used	
⚠	Fuse (FU1 : T1.25AL250V)	Not used	Not used	Not used	REK-101	REK-101	REK-101	REK-101	
⚠	Fuse (FU1 : 2.5A)	REK1079	Not used	Not used	Not used	Not used	Not used	Not used	
⚠	Fuse (FU2, FU3 : T1.25AL250V)	Not used	REK-101	REK-101	Not used	Not used	Not used	Not used	*
⚠	Fuse (FU4. FU5 : T2.5AL250V)	Not used	AEK1058	AEK1058	AEK1058	AEK1058	AEK1058	AEK1058	
⚠	Fuse (FU4. FU5 : 4A)	REK1082	Not used	Not used	Not used	Not used	Not used	Not used	
⚠	Fuse (FU6 : T1.6A)	Not used	AEK1056	AEK1056	AEK1056	AEK1056	AEK1056	AEK1056	*
	Ceranic capacitor (C9001)	Not used	Not used	Not used	Not used	Not used	CCDSL151J50	Not used	*
NSP	PC suport	Not used	VEC1234	VEC1234	VEC1234	VEC1234	VEC1234	VEC1234	*
NSP	PCB holder	Not used	PNW2174	PNW2174	PNW2174	PNW2174	PNW2174	PNW2174	*
	Mic knob (ECHO LEVEL. MIC LEVEL 1)	Not used	RAC1936	RAC1936	RAC1936	RAC1936	RAC1936	RAC1936	*
	Tapping screw	Not used	Not used	Not used	Not used	Not used	RBA-090	Not used	*
	Caution label	Not used	Not used	PRW1018	Not used	Not used	Not used	PRW1018	*
	Caution label (G)	Not used	Not used	PRW-329	PRW-329	PRW-329	PRW-329	PRW-329	*
	● Main section (2/2)								
⚠	Voltage selector (AC115/120/220-230/240V)	Not used	AKX-507	AKX-507	Not used	Not used	Not used	Not used	*
	Lead card 26P	RDD1315	RDD1315	RDD1315	Not used	Not used	Not used	Not used	
	Lead card 26P	Not used	Not used	Not used	RDD1329	RDD1329	RDD1329	RDD1329	*
	Lead card 30P	Not used	Not used	Not used	RDD1320	RDD1320	RDD1320	RDD1320	*
NSP	Rear panel	RNA1940	Not used	Not used	Not used	Not used	Not used	Not used	
NSP	Rear panel 2	Not used	RNA1895	RNA1896	RNA1897	RNA1897	RNA1899	RNA1898	
NSP	Protect sheet	Not used	Not used	Not used	REC1257	REC1257	REC1257	REC1257	*
	PCB holder	Not used	Not used	Not used	VEC1624	VEC1624	VEC1624	VEC1624	*
	● Power amp. module section								
	Fan motor	AXM1019	AXM7003	AXM7003	AXM7003	AXM7003	AXM7003	AXM7003	
⚠	Transistor (Q7111. Q7112)	Not used	2SB1274	2SB1274	2SB1274	2SB1274	2SB1274	2SB1274	*
⚠	Transistor (Q7113. Q7114)	Not used	2SD1913	2SD1913	2SD1913	2SD1913	2SD1913	2SD1913	*
	● Front panel section (1/2)								
	P-BASS knob (SPEAKER BALANCE)	Not used	AAB1311	AAB1311	AAB1311	AAB1311	AAB1311	AAB1311	*
	Mode button (DOLBY MODE)	Not used	RAC1970	RAC1970	RAC1970	RAC1970	RAC1970	RAC1970	*
	Surround button (CENTER MODE)	Not used	RAC1971	RAC1971	RAC1971	RAC1971	RAC1971	RAC1971	*
	Display window 2	Not used	RAH2500	RAH2500	RAH2500	RAH2500	RAH2500	RAH2500	*
	● Front panel section (2/2)								
NSP	Getter	RAX1023	RAX1022	RAX1022	RAX1016	RAX1016	RAX1017	RAX1016	
	Front panel	REA1174	REA1176	REA1176	REA1177	REA1177	REA1177	REA1177	
	Front panel 2	Not used	RNT1214	RNT1214	RNT1214	RNT1214	RNT1214	RNT1214	
	Spot lens	Not used	RNK1847	RNK1847	RNK1847	RNK1847	RNK1847	RNK1847	
	● Packing								
	Remote control unit	RPX1084	RPX1087	RPX1087	RPX1087	RPX1087	RPX1087	RPX1087	
	Battery lid	AZA7050	AZN2099	AZN2099	AZN2099	AZN2099	AZN2099	AZN2099	
	FM antenna	ADH1017	ADH1017	ADH1017	Not used	Not used	Not used	Not used	
	FM antenna assy	Not used	Not used	Not used	ADH1019	ADH1019	ADH1019	ADH1019	
	Pad F	RHA1160	Not used	Not used	Not used	Not used	Not used	Not used	
	Pad 2F	Not used	RHA1170	RHA1170	RHA1170	RHA1170	RHA1170	RHA1170	
	Pad R	RHA1161	Not used	Not used	Not used	Not used	Not used	Not used	
	Pad 2R	Not used	RHA1171	RHA1171	RHA1171	RHA1171	RHA1171	RHA1171	
	Packing case	RHG1661	Not used	Not used	Not used	Not used	Not used	Not used	
	Packing case 2	Not used	RHG1626	RHG1626	RHG1627	RHG1627	RHG1627	RHG1627	
	Operating instructions (English)	Not used	Not used	Not used	RRB1158	Not used	Not used	RRB1158	*
	Operating instructions (English/Spanish/Chinese)	RRE1117	RRE1117	RRE1117	Not used	Not used	Not used	Not used	
	Operating instructions (German/Italian)	Not used	Not used	Not used	RRD1158	Not used	RRD1158	Not used	*
	Operating instructions (Dutch/Swedish/Spanish/Portuguese)	Not used	Not used	Not used	RRD1159	Not used	Not used	Not used	*
	Operating instructions (French/German/Italian/ Dutch/Swedish/Portuguese)	Not used	Not used	Not used	RRD1160	RRD1160	RRD1160	Not used	*
	Operating instructions (French)	Not used	Not used	Not used	RRD1161	RRD1161	Not used	Not used	*
	Additional instructions (English/Spanish/Chinese)	Not used	RRE1118	RRE1118	RRE1118	Not used	Not used	RRE1118	*
	Caution (UC)	VRR1020	VRR1020	VRR1020	Not used	Not used	Not used	VRR1020	

* : Refer to "3. EXPLODED VIEWS, PACKING AND PARTS LIST".

■ CONTRAST OF PCB ASSEMBLIES

• MAIN ASSY(RWZ3596, RWZ3330 AND RWZ3332)

RWZ3596, RWZ3330, RWZ3332 and RWZ3619 have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		RWZ3619	RWZ3596	RWZ3330	RWZ3332	
	IC1021	Not used	Not used	XRA4558F-P	Not used	
	D1031	Not used	Not used	Not used	Not used	
	L1001, L1002	Not used	Not used	Not used	ATH-059	
	C1001 - C1008	Not used	Not used	Not used	CKSQYB391K50	
	C1013, C1014	Not used	Not used	Not used	CCSQCH470J50	
	C1017, C1018	Not used	Not used	Not used	CKSQYB471K50	
	C1099	Not used	Not used	CEANP4R7M50	Not used	
	C1101, C1102	Not used	Not used	Not used	CKSQYF473Z50	
	C1103, C1104	Not used	Not used	Not used	CKSQYB333K50	
	C1132, C1133	Not used	Not used	Not used	CKDYB821K50	
	R1019, R1020	Not used	Not used	RS1/10S101J	Not used	
⚠	R1135, R1136	Not used	Not used	Not used	RD1/4LMF101J	
	R1153, R1154	Not used	Not used	RS1/10S223J	Not used	
	R1155, R1156	Not used	Not used	RS1/10S102J	Not used	
	CN1013 2P pin jack	Not used	Not used	AKB1146	Not used	
	CN1014 4P speaker terminal	RKE1005	AKE1026	AKE1026	AKE7001	
	CN1020 4P pin jack	Not used	Not used	RKB1035	Not used	

• MAIN ASSY(RWZ3333)

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC1002, IC1014	BU4052BCF
	IC1007, IC1505	BU4053BCF
	IC1001	BU4066BCF
⚠	IC1022, IC1023	ICP-N50
	IC1012	M65840SP
	IC1013	M66320FP
	IC1006	PM0006A
	IC1003, IC1005	UPC4570G2
	IC1004, IC1011, IC1015, IC1016	XRA4558F-P
	IC1501-IC1504	XRA4558F-P
	Q1027, Q1028	2PB709A
	Q1020, Q1021	2PD601A
	Q1011	2SA1515
⚠	Q1004	2SB560
	Q1024	2SC3327
	Q1007	2SC3377
⚠	Q1001	2SD438
	Q1014, Q1025	DTA124EK
	Q1008	DTA143EK
	Q1029	DTC124EK
	Q1012	DTC143EK
⚠	D1008, D1009, D1030, D1032, D1033	11ES2
	D1003, D1004, D1006, D1014, D1015	1SS254
	D1026-D1029	1SS254
⚠	D1010	D2SBA20(B)
⚠	D1012	D3SBA20(A)
	D1005	MTZJ10B
	D1007	MTZJ30B
	D1017	MTZJ5. 1B
	D1016	MTZJ5. 6B

CAPACITORS

Mark	No. Description	Part No.
	C1067, C1068	CCSQCH100D50
	C1123	CCSQCH101J50
	C1048, C1058	CCSQCH391J50
	C1059	CCSQCH471J50
	C1513	CCSQSL101J50
	C1098	CEANP100M50
	C1083	CEANP101M35
	C1112	CEANP101M6R3
	C1099	CEANP4R7M50
	C1113	CEAS010M50
	C1020, C1021, C1025, C1027, C1028	CEAS100M50
	C1032	CEAS100M50
	C1127	CEAS101M10
	C1084	CEAS101M63
	C1088	CEAS102M35
	C1125	CEAS221M6R3
	C1044, C1052	CEAS2R2M50
	C1087	CEAS332M35
	C1069, C1070	CEAS470M10
	C1085	CEAS470M50
	C1503, C1504	CEASR33M50
	C1128	CEJA101M10
	C1022, C1029, C1075, C1080	CKSQYB102K50
	C1517, C1518	CKSQYB102K50
	C1124	CKSQYB103K50
	C1050, C1062	CKSQYB152K50
	C1073, C1078	CKSQYB153K50
	C1514-C1516	CKSQYB183K50
	C1100	CKSQYB222K50
	C1505, C1506	CKSQYB272K50

Mark	No.	Description	Part No.
	C1076, C1081		CKSQYB471K50
	C1074, C1079		CKSQYB472K50
	C1507-C1512		CKSQYB561K50
	C1019, C1045-C1047, C1049		CKSQYB562K50
	C1053, C1054, C1060, C1061		CKSQYB562K50
	C1030, C1031, C1501, C1502		CKSQYB683K25
	C1023, C1024		CKSQYB822K50
	C1015, C1016, C1094, C1095		CKSQYF103Z50
	C1026, C1033, C1034, C1071		CKSQYF104Z50
	C1096, C1097, C1115-C1118		CKSQYF104Z50
	C1072, C1077		CKSQYF473Z50
	C1055-C1057		CQMA104J50
	C1051, C1063		CQMA333J50
	C1064-C1066		CQMA683J50
	C1091, C1092	(3300/50V)	RCH1129

RESISTORS

Mark	No.	Description	Part No.
	R1098		RD1/2PM103J
⚠	R1104		RD1/2PMF272J
⚠	R1178, R1179		RD1/4PM181J
	R1100		RD1/6PM472J
⚠	R1101, R1102		RFA1/4PS470J
⚠	R1103		RFA1/4PS4R7J
⚠	R1099, R1236		RS1LMF122J
⚠	R1195		RS2LMF121J
⚠	R1087, R1088		RS2LMFR22J
⚠	R1194		RS3LMF390J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		10P CABLE HOLDER	51052-1000
		16P CABLE HOLDER	51052-1600
		5P CABLE HOLDER	51063-0505
		12P CABLE HOLDER	51063-1205
	CN1001	34P FFC CONNECTOR	9604S-34C
	CN1013	2P PIN JACK	AKB1146
	CN1014	4P SPEAKER TERMINAL	AKE1026
	CN1012	6P JUMPER CONNECTOR	KPC6
	CN1017	15P JUMPER CONNECTOR	KPE15
	CN1009	8P JUMPER CONNECTOR	KPE8
	X1001	CERAMIC RESONATOR	PSS1010
	CN1015	3P PIN JACK	RKB1036
	CN1016	3P PIN JACK	RKB1037
	JA1001	REMOTE CONTROL JACK	RKN1004
	KN1001	EARTH METAL FITTING	VNF1084
	CN1003	14P PLUG	KM200IA14
	CN1010	20P PLUG	KM200IA20
	J1009	JUMPER WIRE	D15A05-200-2468

• MAIN ASSY(RWZ3314)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1002, IC1014		BU4052BCF
	IC1007, IC1505		BU4053BCF
	IC1001		BU4066BCF
⚠	IC1022, IC1023		ICP-N50
	IC1012		M65840SP
	IC1013		M66320FP
	IC1006		PM0006A
	IC1008		TC9154AP
	IC1003, IC1005		UPC4570G2
	IC1004, IC1009-IC1011, IC1015, IC1016		XRA4558F-P
	IC1501-IC1504		XRA4558F-P
	Q1027, Q1028		2PB709A
	Q1020, Q1021		2PD601A
	Q1011		2SA1515
⚠	Q1004		2SB560
	Q1024		2SC3327
	Q1007		2SC3377
⚠	Q1001		2SD438
	Q1014, Q1025		DTA124EK
	Q1008		DTA143EK
	Q1026, Q1029		DTC124EK
	Q1012		DTC143EK
⚠	D1008, D1009, D1030, D1032, D1033		11ES2
	D1001, D1002		1SS226
	D1003, D1004, D1006, D1014, D1015		1SS254
	D1026-D1029		1SS254
⚠	D1010, D1011		D2SBA20(B)
⚠	D1012		D3SBA20(A)
	D1005		MTZJ10B
	D1007		MTZJ30B
	D1017		MTZJ5.1B
	D1016		MTZJ5.6B

COILS

Mark	No.	Description	Part No.
	L1005, L1006		LAU220J

CAPACITORS

Mark	No.	Description	Part No.
	C1067, C1068		CCSQCH100D50
	C1123		CCSQCH101J50
	C1048, C1058		CCSQCH391J50
	C1059		CCSQCH471J50
	C1035, C1036		CCSQCH820J50
	C1513		CCSQSL101J50
	C1098		CEANP100M50
	C1083		CEANP101M35
	C1112		CEANP101M6R3
	C1113		CEAS010M50
	C1020, C1021, C1025, C1027, C1028		CEAS100M50
	C1032		CEAS100M50
	C1127		CEAS101M10
	C1084		CEAS101M63
	C1088-C1090		CEAS102M35
	C1125		CEAS221M6R3
	C1044, C1052		CEAS2R2M50
	C1087	(3300/35V)	RCH1132
	C1069, C1070		CEAS470M10
	C1085		CEAS470M50

Mark	No.	Description	Part No.
	C1503, C1504		CEASR33M50
	C1128		CEJA101M10
	C1022, C1029, C1075, C1080		CKSQYB102K50
	C1517, C1518		CKSQYB102K50
	C1124		CKSQYB103K50
	C1050, C1062		CKSQYB152K50
	C1073, C1078		CKSQYB153K50
	C1514-C1516		CKSQYB183K50
	C1100		CKSQYB222K50
	C1505, C1506		CKSQYB272K50
	C1043		CKSQYB331K50
	C1076, C1081		CKSQYB471K50
	C1074, C1079		CKSQYB472K50
	C1507-C1512		CKSQYB561K50
	C1019, C1045-C1047, C1049		CKSQYB562K50
	C1053, C1054, C1060, C1061		CKSQYB562K50
	C1030, C1031, C1501, C1502		CKSQYB683K25
	C1023, C1024		CKSQYB822K50
	C1015, C1016, C1094, C1095		CKSQYF103Z50
	C1026, C1033, C1034, C1071		CKSQYF104Z50
	C1037, C1038		CKSQYF224Z25
	C1096, C1097, C1115-C1122		CKSQYF104Z50
	C1041, C1042, C1072		CKSQYF473Z50
	C1077		CKSQYF473Z50
	C1055-C1057		CQMA104J50
	C1051, C1063		CQMA333J50
	C1064-C1066		CQMA683J50
	C1091, C1092	(3300/50V)	RCH1129

RESISTORS

Mark	No.	Description	Part No.
	R1098		RD1/2PM103J
⚠	R1104		RD1/2PMF272J
⚠	R1178, R1179		RD1/4PM181J
	R1100		RD1/6PM472J
⚠	R1101, R1102		RFA1/4PS470J
⚠	R1103		RFA1/4PS4R7J
⚠	R1099, R1236		RS1LMF122J
⚠	R1089, R1090		RS1LMFR22J
⚠	R1195		RS2LMF121J
⚠	R1087, R1088		RS2LMFR22J
⚠	R1194		RS3LMF390J
	Other Resistors		RS1/10S☐☐☐J

OTHERS

Mark	No.	Description	Part No.
		8P CABLE HOLDER	51052-0800
		10P CABLE HOLDER	51052-1000
		16P CABLE HOLDER	51052-1600
		5P CABLE HOLDER	51063-0505
		12P CABLE HOLDER	51063-1205
	CN1002	3P JUMPER CONNECTOR	52151-0310
	CN1001	34P FFC CONNECTOR	9604S-34C
	CN1013	3P PIN JACK	AKB1120
	CN1014	4P SPEAKER TERMINAL	AKE1026
	CN1012	6P JUMPER CONNECTOR	KPC6
	CN1017	15P JUMPER CONNECTOR	KPE15
	CN1009	8P JUMPER CONNECTOR	KPE8
	X1001	CERAMIC RESONATOR	PSS1010
	CN1015	3P PIN JACK	RKB1036
	CN1016	3P PIN JACK	RKB1037
	JA1001	REMOTE CONTROL JACK	RKN1004
	KN1001	EARTH METAL FITTING	VNF1084
	CN1003	14P PLUG	KM200IA14
	CN1005	18P PLUG	KM200IA18
	CN1010	20P PLUG	KM200IA20
	J1009	JUMPER WIRE	D15A05-200-2468

• MAIN ASSY(RWZ3334)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1002, IC1014		BU4052BCF
	IC1007, IC1505		BU4053BCF
	IC1001		BU4066BCF
⚠	IC1022, IC1023		ICP-N50
	IC1012		M65840SP
	IC1013		M66320FP
	IC1006		PM0006A
	IC1008		TC9154AP
	IC1003, IC1005		UPC4570G2
	IC1004, IC1009-IC1011, IC1015, IC1016		XRA4558F-P
	IC1501-IC1504		XRA4558F-P
	Q1027, Q1028		2PB709A
	Q1020, Q1021		2PD601A
	Q1011		2SA1515
⚠	Q1004		2SB560
	Q1024		2SC3327
	Q1007		2SC3377
⚠	Q1001		2SD438
	Q1014, Q1025		DTA124EK
	Q1008		DTA143EK
	Q1026, Q1029		DTC124EK
	Q1012		DTC143EK
⚠	D1008, D1009, D1030, D1032, D1033		11ES2
	D1001, D1002		1SS226
	D1003, D1004, D1006, D1014, D1015		1SS254
	D1026-D1029		1SS254
⚠	D1010, D1011		D2SBA20(B)
⚠	D1012		D3SBA20(A)
	D1005		MTZJ10B
	D1007		MTZJ30B
	D1017		MTZJ5. 1B
	D1016		MTZJ5. 6B

COILS

Mark	No.	Description	Part No.
	L1001-L1004		ATH-059
	L1005, L1006		LAU220J

CAPACITORS

Mark	No.	Description	Part No.
	C1067, C1068		CCSQCH100D50
	C1123		CCSQCH101J50
	C1048, C1058		CCSQCH391J50
	C1013, C1014		CCSQCH470J50
	C1059		CCSQCH471J50
	C1035, C1036		CCSQCH820J50
	C1513		CCSQSL101J50
	C1098		CEANP100M50
	C1083		CEANP101M35
	C1112		CEANP101M6R3

Mark	No.	Description	Part No.
	C1113		CEAS010M50
	C1020, C1021, C1025, C1027, C1028		CEAS100M50
	C1032		CEAS100M50
	C1127		CEAS101M10
	C1084		CEAS101M63
	C1088-C1090		CEAS102M35
	C1125		CEAS221M6R3
	C1044, C1052		CEAS2R2M50
	C1087	(3300/35V)	RCH1132
	C1069, C1070		CEAS470M10
	C1085		CEAS470M50
	C1503, C1504		CEASR33M50
	C1128		CEJA101M10
	C1132, C1133		CKDYB821K50
	C1022, C1029, C1075, C1080		CKSQYB102K50
	C1517, C1518		CKSQYB102K50
	C1124		CKSQYB103K50
	C1050, C1062		CKSQYB152K50
	C1073, C1078		CKSQYB153K50
	C1514-C1516		CKSQYB183K50
	C1100		CKSQYB222K50
	C1505, C1506		CKSQYB272K50
	C1043		CKSQYB331K50
	C1103, C1104, C1107, C1108		CKSQYB333K50
	C1001-C1008		CKSQYB391K50
	C1017, C1018, C1076, C1081		CKSQYB471K50
	C1074, C1079		CKSQYB472K50
	C1507-C1512		CKSQYB561K50
	C1019, C1045-C1047, C1049		CKSQYB562K50
	C1053, C1054, C1060, C1061		CKSQYB562K50
	C1030, C1031, C1501, C1502		CKSQYB683K25
	C1023, C1024		CKSQYB822K50
	C1015, C1016, C1094, C1095		CKSQYF103Z50
	C1026, C1033, C1034, C1071		CKSQYF104Z50
	C1096, C1097, C1115-C1122		CKSQYF104Z50
	C1037, C1038		CKSQYF224Z25
	C1041, C1042, C1072		CKSQYF473Z50
	C1077, C1101, C1102, C1105, C1106		CKSQYF473Z50
	C1055-C1057		CQMA104J50
	C1051, C1063		CQMA333J50
	C1064-C1066		CQMA683J50
	C1091, C1092	(3300/50V)	RCH1129

RESISTORS

Mark	No.	Description	Part No.
	R1098		RD1/2PM103J
⚠	R1104		RD1/2PMF272J
⚠	R1135-R1138		RD1/4LMF101J
⚠	R1178, R1179		RD1/4PM181J
	R1100		RD1/6PM472J
⚠	R1101, R1102		RFA1/4PS470J
⚠	R1103		RFA1/4PS4R7J
⚠	R1099, R1236		RS1LMF122J
⚠	R1089, R1090		RS1LMFR22J
⚠	R1195		RS2LMF121J
⚠	R1087, R1088		RS2LMFR22J
⚠	R1194		RS3LMF390J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		8P CABLE HOLDER	51052-0800
		10P CABLE HOLDER	51052-1000
		16P CABLE HOLDER	51052-1600
		5P CABLE HOLDER	51063-0505
		12P CABLE HOLDER	51063-1205
	CN1002	3P JUMPER CONNECTOR	52151-0310
	CN1001	34P FFC CONNECTOR	9604S-34C
	CN1013	3P PIN JACK	AKB1120
	CN1014	4P SPEAKER TERMINAL	AKE7001
	CN1012	6P JUMPER CONNECTOR	KPC6
	CN1017	15P JUMPER CONNECTOR	KPE15
	CN1009	8P JUMPER CONNECTOR	KPE8
	X1001	CERAMIC RESONATOR	PSS1010
	CN1015	3P PIN JACK	RKB1036
	CN1016	3P PIN JACK	RKB1037
	JA1001	REMOTE CONTROL JACK	RKN1004
	KN1001	EARTH METAL FITTING	VNF1084
	CN1003	14P PLUG	KM200IA14
	CN1005	18P PLUG	KM200IA18
	CN1010	20P PLUG	KM200IA20
	J1009	JUMPER WIRE	D15A05-200-2468

• VOL ASSY(RWZ3587, RWZ3594, RWZ3595 AND RWZ3315)

RWZ3587, RWZ3594, RWZ3595, RWZ3315 and RWZ3593 have the same construction except for the following :

Mark	Symbol & Description	Part No.					Remarks
		RWZ3593	RWZ3587	RWZ3594	RWZ3595	RWZ3315	
	IC1803	Not used	Not used	Not used	XRA4558F-P	XRA4558F-P	
	Q1804	Not used	Not used	Not used	DTA124EK	DTA124EK	
	Q1805, Q1806	Not used	Not used	Not used	2SC3327	2SC3327	
	C1805, C1806	CEZA2R2M50	CEZA010M50	CEZA2R2M50	CEZA2R2M50	CEZA2R2M50	
	C1811, C1812	Not used	Not used	Not used	CEAS2R2M50	CEAS2R2M50	
	C1813, C1814	Not used	Not used	Not used	CEAS100M50	CEAS100M50	
	C1815, C1816	Not used	Not used	Not used	CEAS2R2M50	CEAS2R2M50	
	C1823, C1824	Not used	Not used	Not used	CCSQCH470J50	CCSQCH470J50	
	C1833, C1844	CKSQYB332K50	CKSQYB333K50	CKSQYB333K50	CKSQYB333K50	CKSQYB332K50	
	C1839, C1840	Not used	Not used	Not used	CKSQYB333K50	CKSQYB332K50	
	C1841, C1842	Not used	Not used	Not used	CKSQYF473Z50	CKSQYF473Z50	
	VR1801	RCX1052	RCX1052	RCX1052	RCX1053	RCX1053	
	R1809, R1810	RS1/10S432J	RS1/10S432J	RS1/10S000J	RS1/10S000J	RS1/10S432J	
	R1811, R1812	RS1/10S472J	RS1/10S472J	Not used	Not used	RS1/10S472J	
	R1819, R1820	Not used	Not used	Not used	RS1/10S472J	RS1/10S472J	
	R1825, R1826	Not used	Not used	Not used	RS1/10S224J	RS1/10S224J	
	R1827, R1828	Not used	Not used	Not used	RS1/10S000J	RS1/10S432J	
	R1829, R1830	Not used	Not used	Not used	Not used	RS1/10S472J	
	R1837, R1838	Not used	Not used	Not used	RS1/10S101J	RS1/10S101J	
	R1841, R1842	Not used	Not used	Not used	RS1/10S102J	RS1/10S102J	
	R1844	Not used	Not used	Not used	RS1/10S104J	RS1/10S104J	
	R1845, R1846	RS1/10S104J	RS1/10S333J	RS1/10S333J	RS1/10S333J	RS1/10S104J	
	R1849, R1850	Not used	Not used	Not used	RS1/10S333J	RS1/10S104J	

• DECK ASSY(RWZ3337)

RWZ3337 and RWZ3577 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3577	RWZ3337	
	Q4101, Q4102, Q4305, Q4306	2PD601A	Not used	
	Q4116, Q4117	DTA124EK	Not used	
	Q4352	2SA1515	Not used	
	Q4531	DTC143EK	Not used	
	D4901, D4904	1SS254	Not used	
	C4109, C4110	CKSQYB821K50	Not used	
	C4305, C4306	CKSQYB273K50	Not used	
	C4351	CEAS470M16	Not used	
	R4109, R4110	RS1/10S473J	Not used	
	R4111, R4112, R4307	RS1/10S103J	Not used	
	R4308, R4351	RS1/10S103J	Not used	
	R4123, R4124	RS1/10S563J	Not used	
	R4309, R4310	RS1/10S182J	Not used	
	R4311, R4312	RS1/10S561J	Not used	
	R4352	RS1/10S102J	Not used	
	CN4006, CN4007 KR connector	B2B-PH-K-S	Not used	

• TRANS ASSY(RWZ3597 AND RWZ3592)

RWZ3597, RWZ3592 and RWZ3317 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		RWZ3317	RWZ3597	RWZ3592	
⚠	IC1771, IC1773	Not used	Not used	ICP-N75	
	H1755, H1756 Fuse holder	Not used	VKR1001	VKR1001	

• PRIMARY ASSY(RWZ3325, RWZ3339 AND RWZ3620)

RWZ3325, RWZ3339, RWZ3620 and RWZ3377 have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		RWZ3377	RWZ3325	RWZ3339	RWZ3620	
⚠	L1771 Line filter	ATF-151	ATF-151	ATF-151	Not used	
⚠	C1771	RCG-009	RCG-009	VCG-048	RCG-009	
⚠	R1771	ACN-208	Not used	Not used	Not used	
	H1773-H1776 Fuse holder	Not used	VKR1001	Not used	VKR1001	

• U.COM ASSY(RWZ3341, RWZ3342, RWZ3318, RWZ3470, RWZ3319 AND RWZ3343)

RWZ3341, RWZ3342, RWZ3318, RWZ3470, RWZ3319, RWZ3343 and RWZ3376 have the same construction except for the following :

Mark	Symbol & Description	Part No.							Remarks
		RWZ3376	RWZ3341	RWZ3342	RWZ3318	RWZ3470	RWZ3319	RWZ3343	
	IC1301	PDG149A	PDG149A	PDG145A	PDG149A	PDG149A	PDG149A	PDG145A	
	Q1306, Q1307	Not used	Not used	Not used	2PB709A	2PB709A	2PB709A	2PB709A	
	D1345	Not used	Not used	Not used	1SS254	1SS254	Not used	Not used	
	D1346	1SS254	Not used	Not used	Not used	Not used	1SS254	1SS254	
	D1347	Not used	Not used	Not used	Not used	1SS254	1SS254	1SS254	
	C1311, C1312	Not used	Not used	Not used	CKSQYF103Z50	CKSQYF103Z50	CKSQYF103Z50	CKSQYF103Z50	
	R1385	RS1/10S102J	RS1/10S102J	RS1/10S102J	RS1/10S102J	RS1/10S102J	RS1/10S221J	RS1/10S221J	
	R1393, R1394	Not used	Not used	Not used	RS1/10S472J	RS1/10S472J	RS1/10S472J	RS1/10S472J	
	R1398, R1399	Not used	Not used	Not used	RS1/10S103J	RS1/10S103J	RS1/10S103J	RS1/10S103J	
	14P CABLE HOLDER	Not used	Not used	Not used	Not used	Not used	51063-1405	51063-1405	

• H.P. ASSY(RWZ3316)

RWZ3316 and RWZ3351 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3351	RWZ3316	
	CN1701 Mini jack	AKN1028	AKN1029	

• LD-FRONT ASSY(RWZ3352 AND RWZ3321)

RWZ3352, RWZ3321 and RWZ3344 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		RWZ3344	RWZ3352	RWZ3321	
	IC2102	Not used	Not used	M65830AFP-TF	
	S2101, S2102	Not used	Not used	RSG1034	
	S2103	RSG1034	RSG1034	Not used	
	L2101	Not used	Not used	LAU221J	
	C2104, C2106, C2107	Not used	Not used	CEAS010M50	
	C2105, C2111	Not used	Not used	CKSQYF223Z50	
	C2108, C2118	Not used	Not used	CKSQYB123K50	
	C2109	Not used	Not used	CKSQYB182K50	
	C2110	Not used	Not used	CEANP010M50	
	C2112, C2116	Not used	Not used	CKSQYB683K25	
	C2113	Not used	Not used	CEAS470M10	
	C2114, C2115	Not used	Not used	CKSQYB104K25	
	C2117	Not used	Not used	CKSQYB122K50	
	C2121	Not used	Not used	CKSQYF104Z50	
	C2122	Not used	Not used	CEAS101M6R3	
	C2123, C2124	Not used	Not used	CCSQCH331J50	
	C2125	Not used	Not used	CEAS100M50	
	C2131	CCSQCH470J50	Not used	CCSQCH470J50	
	C2132	CCSQSL471J50	Not used	CCSQSL471J50	
	C2133, C2134	CKSQYF223Z50	Not used	CKSQYF223Z50	
	VR2101	Not used	ACS1101	ACS1101	
	VR2103	Not used	Not used	ACS1101	
	R2101	Not used	RS1/10S103J	RS1/10S103J	
	R2106	Not used	Not used	RS1/10S272J	
	R2108, R2113, R2114, R2118	Not used	Not used	RS1/10S103J	
	R2112	Not used	Not used	RS1/10S473J	
	R2115	Not used	Not used	RS1/10S300J	
	R2116	Not used	Not used	RS1/10S302J	
	R2117, R2119, R2124	Not used	Not used	RS1/10S153J	
	R2121	Not used	Not used	RS1/10S105J	
	R2122	Not used	Not used	RS1/10S332J	
	R2123	Not used	Not used	RS1/10S154J	
	X2101 Ceramic resonator (500kHz)	Not used	Not used	DSS1011	

• SPDR UNIT(RWZ3360)

RWZ3360 and RWZ3359 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3359	RWZ3360	
⚠	D1	S2VB20	S4VB20F	
	D21, D22	Not used	1SS254	
	C21, C22	Not used	CKCYB272K50	
	C35-C38	Not used	CFTYA223J50	
	R21, R22	RD1/6PM332J	RD1/6PM562J	

• MIC ASSY(RWZ3361 AND RWZ3322)

RWZ3361, RWZ3322 and RWZ3346 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		RWZ3346	RWZ3361	RWZ3322	
	C1601	Not used	CKSQYB222K50	CKSQYB222K50	
	C1603	Not used	CKSQYF104Z50	CKSQYF104Z50	
	C1605	Not used	CEAS4R7M50	CEAS4R7M50	
	C1607	Not used	CKSQYB182K50	CKSQYB182K50	
	C1609	Not used	CEAS010M50	CEAS010M50	
	C1614	Not used	Not used	CKSQYF103Z50	
	R1601	Not used	RS1/10S471J	RS1/10S471J	
	R1603	Not used	RS1/10S563J	RS1/10S563J	
	R1605	RS1/10S000J	RS1/10S333J	RS1/10S333J	
	R1607	Not used	RS1/10S331J	RS1/10S331J	
	R1609	RS1/10S000J	RS1/10S472J	RS1/10S472J	
	R1611	Not used	RS1/10S104J	RS1/10S104J	
	R1613	Not used	RS1/10S101J	RS1/10S101J	
	Mini jack	Not used	Not used	AKN1023	
	HJ1601 Phone jack (MIC 1)	Not used	AKN1019	AKN1019	

• L-LED ASSY(RWZ3323)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	D1781-D1783		SEL6410E-TS

OTHERS

Mark	No.	Description	Part No.
	J1781	CONNECTOR ASSY 2P-2P	RKP1710

• R-LED ASSY(RWZ3324)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	D1791-D1793		SEL6410E-TS

OTHERS

Mark	No.	Description	Part No.
	J1791	CONNECTOR ASSY 2P-2P	RKP1710

• DOLBY-FRONT ASSY(RWZ3327)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC2001		MSC7112-01SS
	Q2004		2PD601A
	Q2001, Q2002		2SC3377
	Q2003		DTA124ES

COIL

Mark	No.	Description	Part No.
	L2001		LAU220J

SWITCHES

Mark	No.	Description	Part No.
	S2001-S2005		RSG1034

CAPACITORS

Mark	No.	Description	Part No.
	C2001		CCSQCH101J50
	C2006		CCSQCH220J50
	C2007		CCSQCH560J50
	C2005		CEAS470M16
	C2002-C2004		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	R2007-R2009		RD1/6PM270J
	R2001		RD1/6PM473J
	R2002, R2003		RD1/6PM682J
	VR2001		ACS1031
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		3P CABLE HOLDER	51048-0300
		14P CABLE HOLDER	51063-1405
	V2001	FL TUBE	AAV7001

• FTAU UNIT(RWM1766)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC202, IC903, IC905		BA4560F
	IC351		CA0002AM
	IC802		LC78681KE
	IC801		PAC002A
	IC901		PAC003A
	IC902		TA8410AK
	IC201		TC9276P
	Q201, Q202, Q805, Q903, Q904		2PD601A
	Q907, Q909		2PD601A
	Q834		2SA854S
	Q152, Q803, Q918, Q919		2SC3802K
	Q204, Q205		2SD2144S
	Q208-Q210		UN2112
	Q207, Q901, Q910		UN2212
	D180, D801, D905, D963		1SS254
	D201		KV1851

COILS

Mark	No.	Description	Part No.
	L206, L207, L351, L802-L804		LAU181J
	L202, L205, L352		LAU220J
	L805		LAU2R2J

CAPACITORS

Mark	No.	Description	Part No.
	C809, C811		CCSQCH070D50
	C159, C311		CCSQCH100D50
	C370, C810, C846, C848, C891		CCSQCH101J50
	C161, C232, C353, C812		CCSQCH151J50
	C352, C806		CCSQCH180J50
	C813, C950		CCSQCH220J50
	C371, C931		CCSQCH270J50
	C354		CCSQCH330J50
	C220, C351		CCSQCH390J50
	C260-C263		CCSQCH470J50
	C258, C259, C375		CCSQCH680J50
	C374, C814		CCSQCH820J50
	C871		CEANP100M16
	C838		CEANP470M6R3
	C227, C281, C904		CEAS010M50
	C274, C275, C367, C917, C922		CEAS100M50
	C364		CEAS101M10
	C252, C253		CEAS101M6R3
	C987		CEAS220M25
	C845, C902, C926		CEAS2R2M50
	C255		CEAS331M6R3
	C230, C270, C271, C363, C369		CEAS470M10
	C801, C803, C833, C836, C842		CEAS470M10
	C844, C893, C927, C933		CEAS470M10
	C974, C975		CEAS470M10
	C850, C870		CEAS4R7M50
	C368, C913		CEASR47M50
	C967, C968		CEHAQ220M16
	C907, C914, C936		CKSQYB102K50
	C213, C235-C237, C251, C256		CKSQYB332K50
	C278, C282		CKSQYB332K50
	C361, C362		CKSQYB392K50
	C355-C358, C909		CKSQYB472K50
	C105, C214, C231, C234, C286		CKSQYF103Z50
	C372, C373, C376, C802, C804		CKSQYF103Z50
	C807, C831, C832, C834, C835		CKSQYF103Z50
	C843, C872, C892, C894, C897		CKSQYF103Z50
	C918, C928, C929, C932		CKSQYF103Z50
	C937, C938, C961, C962, C964		CKSQYF103Z50
	C971, C982		CKSQYF103Z50
	C151, C365, C366, C840, C841		CKSQYF104Z25
	C847, C910-C912, C915, C981		CKSQYF104Z25
	C983		CKSQYF104Z25
	C837, C921, C930		CKSQYF223Z50
	C359, C360, C905, C951		CKSQYF224Z25
	C254, C305, C387, C808, C815		CKSQYF473Z25
	C925		CKSQYF473Z25
	C923		CQMA124J50
	C908		CQMA154J50
	C903		CQMA222J50
	C934		CQMA681J50

RESISTORS

Mark	No.	Description	Part No.
	R831, R832		RD1/6PM1R8J
	R987, R989		RN1/10SE103D
	R986, R990		RN1/10SE333D
	VR612	(47kΩ)	RCP1047
	VR604, VR607	(47kΩ)	RCP1104
	VR603	(4.7kΩ)	RCP1139
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		12P CABLE HOLDER	51063-1205
		14P CABLE HOLDER	51063-1405
	CN103	23P FFC CONNECTOR	52233-2310
	CN13	19P FFC CONNECTOR	9604S-19C
	CN15	26P FFC CONNECTOR	9604S-26C
	CN106	11PIN SIDE POST	BS11P-SHF-1AA
	CN14	13P JUMPER CONNECTOR	KPE13
	KN801	ERATH METAL FITTING	VNF1084
	X201	CRYSTAL RESONATOR(16MHz)	VSS1049

• VIMC UNIT(RWZ3348)

RWZ3348 and RWZ3358 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3358	RWZ3348	
	Q615, Q616	Not used	2PD601A	
	C616	Not used	CKSQYF473Z25	
	R617	RS1/10S681J	RS1/10S472J	
	R620	Not used	RS1/10S102J	
	R621	Not used	RS1/10S271J	
	R622	Not used	RS1/10S472J	
	R623	Not used	RS1/10S101J	
	R624	Not used	RS1/10S331J	
	R625	Not used	RS1/10S750J	
	JA15 Video 2P pin jack	Not used	RKB1039	
	JA16 1P pin jack	RKB1038	Not used	

● VSCB UNIT(RWZ3349)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC403		CXL1009P
	IC803		LA6510L
	IC404		PA0017-P
	IC401		PA5013A
	IC402		PM0001
	Q406, Q407, Q411, Q456, Q496		2PB709A
	Q502, Q511, Q703, Q704		2PB709A
	Q404, Q408, Q410, Q497-Q501		2PD601A
	Q700-Q702		2PD601A
	Q532		2SA933S
	Q111, Q431		2SC1740S
	Q409, Q413		2SC3802K
	Q405		UN2112
	Q530		UN2212
	D152, D153, D401, D592		1SS254
	D151		MTZJ16B/C

COILS

Mark	No.	Description	Part No.
	L413		LAU100J
	L414, L415, L521		LAU120J
	L412, L430		LAU150J
	L497		LAU151J
	L496, L601		LAU220J
	L600		LAU270J
	L525		LAU330J
	L523		LAU390J
	L432		LAU430J
	L433		LAU470J
	L522		LAU560J
	L410, L411, L431		LAU680J
	L458		LFA221J
	L457, L524		LFA561J

CAPACITORS

Mark	No.	Description	Part No.
	C136, C137, C140, C141		CKCYB122K50
	C431, C441		CCSQCH050C50
	C415, C417, C500, C532, C774		CCSQCH100D50
	C419, C461, C496		CCSQCH101J50
	C430		CCSQCH120J50
	C438		CCSQCH060D50
	C456		CCSQCH121J50
	C439, C440, C516, C520		CCSQCH150J50
	C509, C550, C771, C772		CCSQCH151J50
	C409, C423, C424, C485, C491		CCSQCH180J50
	C529		CCSQCH180J50
	C410, C432, C437		CCSQCH220J50
	C139, C143		CCSQCH221J50
	C402		CCSQCH241J50
	C416, C495, C510, C775, C779		CCSQCH270J50
	C463, C507, C508		CCSQCH271J50
	C462		CCSQCH330J50
	C433, C524, C528		CCSQCH390J50
	C406		CCSQCH471J50
	C455		CCSQCH470J50
	C549, C778		CCSQCH560J50
	C411-C413, C420, C498		CCSQCH820J50
	C536		CCSQCH910J50
	C537		CEAL010M50
	C138, C142, C522, C878, C879		CEAL100M16
	C434, C445, C452, C457		CEAL101M6R3
	C489, C490		CEAL101M6R3
	C472, C473, C477		CEAL3R3M50
	C484		CEAL470M16
	C153, C154, C428, C474, C499		CEAL470M6R3
	C501, C502, C512, C521, C525		CEAL470M6R3
	C533		CEAL470M6R3
	C530		CEALNP100M16
	C551		CEALNP220M6R3
	C405		CEALNP2R2M35
	C443		CEALNP4R7M16
	C471		CFTYA224J50
	C155, C156, C414, C418		CKSQYF103Z50
	C421, C422, C425, C426		CKSQYF103Z50
	C447, C448, C458-C460		CKSQYF103Z50
	C475, C476, C486, C493, C497		CKSQYF103Z50
	C535, C776, C777, C780-C784		CKSQYF103Z50
	C876, C888		CKSQYF103Z50
	C403, C404, C2020		CKSQYF104Z25
	C427, C429, C435, C442		CKSQYF104Z25
	C479-C481, C503-C506, C511		CKSQYF104Z25
	C513, C526, C531, C873, C874		CKSQYF104Z25
	C407, C408, C466, C467, C483		CKSQYF473Z25
	C487, C488, C527, C875, C877		CKSQYF473Z25
	C446		CQMA103J50
	C514		CFTYA104J50
	C444		CQMA272J50
	C515, C517		CFTYA683J50

RESISTORS

Mark	No.	Description	Part No.
	R142, R146, R160		RD1/6PM221J
	R406		RD1/6PM224J
	R162		RD1/6PM2R2J
	R159		RD1/6PM3R3J
	R169		RD1/6PM470J
	R591		RD1/6PM471J
	R431		RD1/6PM510J
	R158		RD1/6PM680J
	R438		RN1/6PQ1503F
	R511		RN1/6PQ2002F
	R415, R416		RN1/6PQ3002F
	R434		RN1/6PQ5101F
	VR481, VR482, VR521	(4.7kΩ)	RCP1020
	VR441	(22kΩ)	RCP1046
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		3P CABLE HOLDER	51048-0300
	CN39	30P FFC CONNECTOR	9604S-30C
	CN28	14P JUMPER CONNECTOR	KPE14
	JA203	RGB CONNECTOR	VKB1037
	KN401, KN402	EARTH METAL FITTING	VNF1084

• PTCB UNIT(RWZ3350)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC203, IC602		BA15218N
	IC205		BU4053BC
	IC405		M50552-132SP
	IC101		PD0219A
	IC201		PD3239A
	IC601		PM3002
	IC204		TA7320P
	IC202		TC7SU04F
	Q102, Q204, Q254, Q263, Q503		2PB709A
	Q540, Q611		2PB709A
	Q202, Q203, Q205, Q252, Q253		2PD601A
	Q255-Q260, Q262, Q548, Q549		2PD601A
	Q601-Q605, Q619, Q620		2PD601A
	Q626, Q627		2PD601A
	Q261, Q524		2SC1740S
	Q101		DTA143EK
	Q606		DTA144EK
	Q201, Q251, Q504, Q512, Q609		UN2112
	Q103, Q505, Q522, Q607, Q610		UN2212
	Q612, Q613, Q624, Q625		UN2212
	D609, D610		1SS254
	D601		DA204K
	D201		DAN202K
	D403		DAP202K
	D110		MTZJ5. 1B
	D203		SVC201SPA

COILS AND FILTERS

Mark	No.	Description	Part No.
	L203, L204, L251, L252, L255		LAU120J
	L442, L443		LAU120J
	L205		LAU100J
	L201, L202		LAU1R2J
	L530		LAU220J
	F204		VTF1011
	F203		VTF1034
	F201		VTF1051
	F202		VTF1064

CAPACITORS

Mark	No.	Description	Part No.
	C203		CCSQCH050C50
	C207		CCSQCH100D50
	C212, C256, C265, C632		CCSQCH101J50
	C264, C570		CCSQCH151J50
	C612, C633		CCSQCH180J50
	C235		CCSQCH020C50
	C266, C660		CCSQCH221J50
	C204, C208, C231		CCSQCH270J50
	C104, C105, C205, C540-C543		CCSQCH330J50
	C560		CCSQCH330J50
	C211, C559		CCSQCH390J50
	C252		CCSQCH391J50
	C206		CCSQCH680J50
	C293, C609		CCSQCH820J50
	C643, C647		CEAL101M6R3
	C201, C209, C213, C220-C222		CEAL470M6R3
	C227, C254, C258, C260, C262		CEAL470M6R3
	C268, C270, C273, C275		CEAL470M6R3
	C280-C282, C286, C288, C290		CEAL470M6R3
	C552, C558, C622, C624		CEAL470M6R3
	C619		CEALNP100M16
	C284, C613, C620		CEALNP220M6R3
	C630		CEALNP2R2M35
	C277, C278, C283		CEALNP470M6R3
	C628		CEALNP4R7M16
	C223		CEALNPR47M50
	C101		CEJA331M6R3
	C603		CFTYA224J50
	C103, C110, C160, C196-C198		CKSQYF103Z50
	C202, C210, C214-C217		CKSQYF103Z50
	C225, C226, C230, C232, C233		CKSQYF103Z50
	C251, C253, C255, C257, C259		CKSQYF103Z50
	C261, C263, C269, C271, C274		CKSQYF103Z50
	C276, C285, C289, C291		CKSQYF103Z50
	C553, C554, C557, C561, C562		CKSQYF103Z50
	C565, C566, C602, C604		CKSQYF103Z50
	C615, C616, C621, C644		CKSQYF103Z50
	C677		CKSQYF223Z50
	C102, C601, C629		CKSQYF473Z25
	C219, C605-C607		CQMA102J50
	C618		CQMA103J50
	C617		CFTYA104J50
	C608		CQMA152J50
	C627		CQMA222J50
	C224		CFTYA223J50
	C611		CQMA272J50
	C626		CFTXA472J50
	C614		CFTXA332J50
	C218		CQMA472J50
	C610		CFTYA563J50
	VC201	(10p)	PCM1001
	VC202	(20p)	VCM-008
	VC203	(30p)	VCM1005

RESISTORS

Mark	No.	Description	Part No.
	R564		RD1/6PM102J
	R667		RD1/6PM103J
	R287, R605		RD1/6PM221J
	R286		RD1/6PM2R2J
	R255, R261, R289		RD1/6PM470J
	R290		RD1/6PM680J
	VR201	(2. 2kΩ)	RCP1019
	VR204	(4. 7kΩ)	RCP1020
	VR202	(470Ω)	RCP1120
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN101	10P FFC CONNECTOR	9604S-10C
	CN25	26P FFC CONNECTOR	9604S-26F
	CN29	30P FFC CONNECTOR	9604S-30C
	CN26	12P JUMPER CONNECTOR	KPE12
	JA1	1P PIN JACK	RKB1038
	X202	CRYSTAL RESONATOR(14. 318MHz)	VSS1029
	X101	CERAMIC RESONATOR	VSS1040
	X203	CRYSTAL RESONATOR(17. 734MHz)	VSS1059
	X201	CRYSTAL RESONATOR(14. 22MHz)	VSS1060

• FM/AM TUNER MODULE(AXQ1013)

AXQ1013 and AXQ1012 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AXQ1012	AXQ1013	
	C6202	ACG1051	Not used	
	C6268	CCSQCH101J50	Not used	
	C6269	Not used	CCSQCH101J50	
	C6270	Not used	ACG1051	
	4P antenna terminal	AKA1016	Not used	
	2P antenna terminal	Not used	AKA1017	

• FM/AM TUNER MODULE(AXQ1014)

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC6201	LA1836M
	IC6202	LM7001J
	Q6102	2SC2223
	Q6203	2SC2235
	Q6202, Q6218	2SC2712
	Q6103, Q6214	2SC2714
	Q6201	2SK208
	Q6104, Q6105	2SK302
	Q6101	3SK194
	Q6204	XDA124EK
	Q6217	XDC124EK
	D6101-D6104	1SV228

COILS AND FILTERS

Mark	No. Description	Part No.
	L6106	ATC1003
	L6105	ATC1015
	L6101	ATC1016
	L6102	ATC1017
	L6103	ATC1018
	L6104	ATC1019
	T6101	ATE-063
	L6207	ATE1013
	F6204	ATF-107
	F6203	ATF-119
	F6205	ATF1152
	F6202	ATF1155
	L6107	ATH1043
	L6202, L6203, L6208	LCTA2R2J3225
	L6205	LCTA680J3225

CAPACITORS

Mark	No. Description	Part No.
	C6204, C6234, C6236, C6269 (1μF)	ACG1051
	C6120	CCSCH060D50
	C6229	CCSCH102J50
	C6111, C6122	CCSQCH010C50
	C6112	CCSQCH020C50
	C6118	CCSQCH080D50
	C6113	CCSQCH101J50
	C6116, C6208, C6221, C6222	CCSQCH150J50
	C6117	CCSQCH330J50
	C6272	CCSQSL390J50
	C6105	CCSQSL471J50
	C6101	CCSQTH110J50
	C6119	CCSQTH150J50
	C6109	CCSQTH270J50
	C6107, C6110	CCSQTH300J50
	C6106	CCSQTH330J50
	C6261	CEAS010M50
	C6224, C6231, C6233, C6246, C6262	CEAS100M50
	C6216, C6217	CEAS330M16
	C6219	CEAS470M10
	C6243-C6245	CEAS470M16
	C6227	CEAS470M25
	C6238, C6248	CEJA100M16
	C6249, C6250	CEJA4R7M35
	C6215	CFTXA103J50
	C6214	CFTXA224J50
	C6115, C6125, C6126, C6207	CKSQYB102K50
	C6102, C6114, C6121, C6124, C6210	CKSQYB103K50
	C6264	CKSQYB103K50
	C6247	CKSQYB122K50
	C6213	CKSQYB223K50
	C6230	CKSQYB273K50
	C6228	CKSQYB472K50
	C6209, C6237, C6267	CKSQYB473K50
	C6251, C6252	CKSQYB562K50
	C6212, C6218	CKSQYF103Z50
	C6220, C6226, C6239, C6242	CKSQYF223Z50
	C6255, C6256	CKSQYF223Z50
	C6235	CKSQYF224Z25
	C6225, C6241	CKSQYF473Z50
	C6123	CKSYB103K50
	C6232	CKSYB273K50
	C6223	CKSYF103Z50
	C6263	CKSYF473Z50

RESISTORS

Mark	No. Description	Part No.
	R6299, R6300	RD1/8PM102J
	R6115, R6119, R6123, R6127, R6129	RS1/8S000J
	R6268-R6271, R6275, R6276, R6278	RS1/8S000J
	R6283, R6284, R6293, R6294, R6297	RS1/8S000J
	R6302, R6303	RS1/8S000J

Mark	No.	Description	Part No.
	R6243, R6244		RS1/8S101J
	R6211, R6239		RS1/8S103J
	R6237		RS1/8S122J
	R6209		RS1/8S221J
	R6112		RS1/8S473J
	VR6201	(10kΩ)	ACP1056
	VR6202		VRTB6VS223
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	BN6201	2P ANTENNA TERMINAL	AKA1017
	X6203	CRYSTAL RESONATOR	ASS1042
	X6201	CERAMIC RESONATOR	ASS1066
	X6202	CERAMIC RESONATOR	ATF1027
	AM. RF	TUNING BLOCK	AXX1041

• FM/AM TUNER MODULE(AXQ1016)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC6101		LA1836M
	IC6102		LM7001J
	IC6103		MC13020M
	Q6117		2SA1162
	Q6102		2SC2223
	Q6113		2SC2235
	Q6110, Q6115, Q6116, Q6121-Q6124		2SC2712
	Q6103, Q6107, Q6119, Q6120		2SC2714
	Q6111		2SK208
	Q6104, Q6105		2SK302
	Q6101		3SK194
	Q6106, Q6109		XDA124EK
	Q6112, Q6118		XDC124EK
	Q6108, Q6114		XDC143EK
	D6106		1SS181
	D6101, D6102, D6104		1SV228

COILS AND FILTERS

Mark	No.	Description	Part No.
	L6106		ATC1008
	L6101		ATC1025
	L6102		ATC1026
	L6103		ATC1027
	L6104		ATC1028
	T6101		ATE-063
	L6109		ATE1013
	F6102		ATF-107
	F6101		ATF-119
	F6103		ATF1144
	L6107		ATH1043
	L6108, L6110		LCTA2R2J3225

TRANSFORMER

Mark	No.	Description	Part No.
	T6102		ATB1010

CAPACITORS

Mark	No.	Description	Part No.
	C6191-C6194	(0.082μF)	ACG1050
	C6129, C6153, C6154, C6199, C6200	(1μF)	ACG1051
	C6152	(0.47μF)	ACG1052
	C6120		CCSCH150J50
	C6111		CCSQCH010C50
	C6112, C6122		CCSQCH020C50
	C6113		CCSQCH101J50
	C6157, C6177		CCSQCH102J50
	C6141, C6142		CCSQCH150J50
	C6183		CCSQCH470J50
	C6119		CCSQUJ060D50
	C6118		CCSQUJ080D50
	C6101, C6116		CCSQUJ150J50
	C6106		CCSQUJ270J50
	C6107, C6117		CCSQUJ330J50
	C6185, C6186		CEANLR47M50
	C6165, C6166, C6190		CEAS010M50
	C6137, C6145, C6169, C6205		CEAS100M50
	C6164, C6197, C6198		CEAS101M25
	C6179, C6188		CEAS2R2M50
	C6206		CEAS330M16
	C6140, C6155, C6162, C6163, C6178		CEAS470M25
	C6187		CEAS470M25
	C6189		CEAS4R7M50
	C6160, C6161, C6176		CEJA100M16
	C6181		CEJA470M16
	C6135		CFTXA103J50
	C6134		CFTXA394J50
	C6132		CKCYX473M16
	C6105, C6115, C6125, C6126, C6128		CKSQYB102K50
	C6167, C6168		CKSQYB102K50
	C6102, C6103, C6114, C6121, C6124		CKSQYB103K50
	C6136, C6139, C6144, C6170, C6172		CKSQYB103K50
	C6182, C6184		CKSQYB103K50
	C6195, C6196		CKSQYB222K50
	C6131, C6143		CKSQYB223K50
	C6173-C6175, C6180		CKSQYB332K50
	C6158, C6159		CKSQYB333K50
	C6156		CKSQYB472K50
	C6201		CKSQYF104Z50
	C6138, C6146-C6150, C6171		CKSQYF473Z50
	C6123		CKSYB103K50
	C6207		CKSYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R6115, R6119, R6123, R6127		RS1/8S000J
	R6217, R6218		RS1/8S000J
	R6137		RS1/8S331J
	R6112		RS1/8S473J
	R6141		RS1/8S563J
	VR6101	(10kΩ)	ACP1043
	VR6102	(22kΩ)	ACP1044
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	BN6101	4P ANTENNA TERMINAL	AKA1016
		AG PCB	ANP1713
	X6102	CRYSTAL RESONATOR	ASS1042
	X6101	CERAMIC RESONATOR	ASS1066
	X6104	CERAMIC RESONATOR	ASS1086
	X6103	CERAMIC RESONATOR	ATF1027
	AM. RF	TUNING BLOCK	AXX1044

• REAR REGULATOR ASSY(AWZ7559)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC7201		PAC006B
	IC7101		UPC4570G2
	Q7107, Q7108		2SA1162
	Q7109, Q7110		2SB1115
	Q7101, Q7102, Q7301, Q7302		2SC1815
	Q7105, Q7106, Q7202		2SC2712
	Q7103, Q7104		2SD1615
	D7113, D7114		1SS181
	D7111, D7112, D7204		1SS184
	D7115, D7116		1SS226
	D7205, D7208		HSS104-02
	D7210		RB441Q-40
	D7107-D7110		RD2.2ESB2
	D7206, D7211		RD4.7ESB
	D7207		RD5.6ESB2

CAPACITORS

Mark	No.	Description	Part No.
	C7402, C7406, C7408	(0.082μF)	ACG1050
	C7204	(1μF/16V)	ACG1051
	C7401, C7405, C7407	(0.33μF)	ACG1053
	C7409	(10μF/35V)	ACH1150
	C7109, C7110		ACH1151
	C7202	(4.7μF/35V)	ACH7008
	C7203	(0.33μF/50V)	ACH7009
	C7119-C7122		CCSQCH101J50
	C7133-C7136		CCSQCH221J50
	C7125-C7128		CCSQCH271J50
	C7103, C7104		CCSQCH331J50
	C7142, C7143		CCSQCH470J50
	C7140		CEAS010M50
	C7205		CEJA101M10
	C7144, C7145, C7201, C7208, C7219		CKSQYB103K50
	C7301		CKSQYB332K50
	C7129-C7132		CKSQYB333K50
	C7206, C7215, C7216, C7404, C7698		CKSQYF104Z50
	C7137, C7138		CKSQYF472Z50
	C7139		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	VR7201	(22kΩ)	RCP1103
⚠	R7403-R7405	(1Ω)	ACN1104
	R7119, R7120		ACN1105
	R7115, R7116		ACN1109
	R7252		RD1/6PM102J
	R7253		RD1/6PM103J
⚠	R7137-R7140		RS1/10S0100F
	R7303		RS1/10S1002F
⚠	R7147-R7150		RS1/10S2200F
	R7304		RS1/10S8200F
⚠	R7141-R7144		RS1/8S100J
	R7153		RS1/8S101J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN7101	12P JUMPER CONNECTOR	KPE12

• PRO-LOGIC ASSY(AWX7009)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1901		LA2780N
	IC1903		LM3364K-15
	IC1902		LV1001M-A
	IC1906		M66320FP
	IC1904, IC1905		NJM4558M-D
	Q1904, Q1905		2SC1740S
	Q1903		2SD438
	Q1906, Q1907		RN2203
	D1901, D1903		RD6.2ESB

CAPACITORS

Mark	No.	Description	Part No.
	C1938, C1964		CCSCH102J50
	C1940, C1962		CCSQCH151J50
	C1970		CCSQCH330J50
	C1953		CCSQCH471J50
	C1906, C1922, C1934, C1959		CCSQCH681J50
	C1909, C1910, C1917, C1918		CEANL4R7M50
	C1950		CEANP100M35
	C1956		CEANPR33M50
	C1951		CEAS010M50
	C1903, C1904, C1926, C1927, C1952		CEAS100M50
	C1957, C1958, C1960		CEAS100M50
	C1902		CEAS101M16
	C1968		CEAS221M10
	C1941-C1943		CEAS221M16
	C1930, C1931		CEAS2R2M50
	C1901		CEAS470M25
	C1936		CEAS471M16
	C1965		CEAS4R7M50
	C1911, C1916		CEASR15M50
	C1945		CEASR22M50
	C1937		CEJA4R7M50
	C1912, C1915		CEYA3R3M50
	C1905, C1925		CEYAR33M50
	C1933		CFTXA103J50
	C1907, C1908, C1920, C1923, C1924		CFTXA104J50
	C1935		CFTXA104J50
	C1932		CFTXA153J50
	C1913, C1914, C1961		CFTXA154J50
	C1939, C1963		CFTXA223J50
	C1949		CFTXA333J50
	C1921		CFTXA334J50
	C1919		CFTXA473J50
	C1946		CFTXA683J50
	C1967		CKSQYB103K50
	C1972		CKSQYB472K50
	C1969		CKSQYB562K50
	C1966		CKSQYF104Z50
	C1947		CQMA392J50
	C1948		CQMA472J50
	C1954		CQMA562J50
	C1955		CQMA682J50

RESISTORS

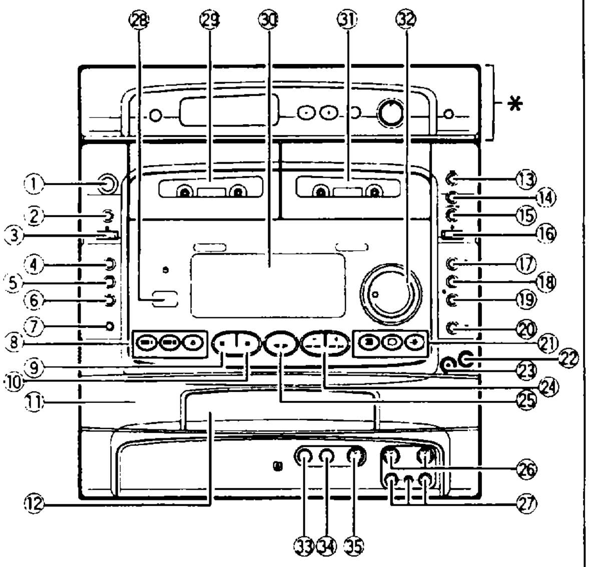
Mark	No.	Description	Part No.
	VR1901		VRTB6VS473
	Other Resistors		RS1/10S□□□J

OTHERS

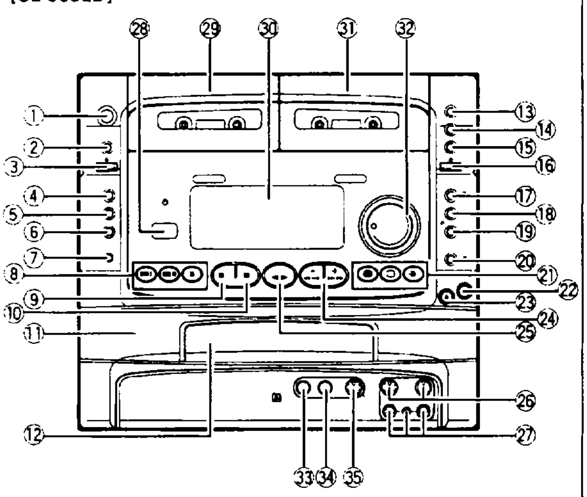
Mark	No.	Description	Part No.
	X1901	CERAMIC RESONATOR	ASS1015

12. PANEL FACILITIES

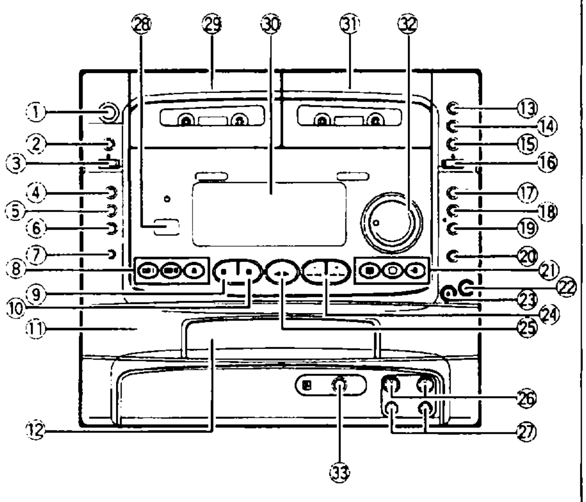
[CL-J75LD]



[CL-J55LD]



[CL-J35LD]



This unit features an "illumination guide function" which utilizes flashing indicators to indicate the operation to be performed next.

Easy Operation Illumination Guide

Operations on pages featuring this symbol use the illumination guide function. When several operations must be adjusted or changed in sequence, flashing indicators designate the control or buttons to be adjusted next.

① **POWER switch (STANDBY/ON)**

② **Dolby NR ON/OFF button**

③ **Tape I eject button (≜)**

④ **SFC button**

⑤ **P.BASS button**

Each time this button is pressed, the function changes alternately as shown below:

→OFF → P.BASS 1 → P.BASS 2 ┐

Select P.BASS 1 when you want enhanced bass sound, and P.BASS 2 for even greater bass resonance.

- If you notice the sound being distorted when the P.BASS function is turned ON, reduce the sound volume to a lower level.

⑥ **SOURCE DIRECT button**

When this button is pressed to on, the indicator lights and the unit produces pure sound unmodified by the sound field control. Use this function when you wish to record sounds without modification, in their original condition.

⑦ **Headphone jack (PHONES)**

⑧ **Input selector buttons**

⑨ **Pause button (❚❚)**

⑩ **Stop button (■)**

⑪ **LD disc tray**

⑫ **CD disc tray**

⑬ **Record/Stop button (●/■)**

⑭ **ASES button**

⑮ **COPY I ▸ II button**

⑯ **Tape II eject button (≜)**

⑰ **TIMER ON/OFF button**

⑱ **TIMER MODE button**

⑲ **CLOCK/ADJUST button (◷/ADJUST)**

⑳ **STATION MEMORY button**

㉑ **Input selector buttons**

㉒ **LD open/close button**

㉓ **CD open/close button**

㉔ **Fast forward/rewind button (◀◀ ❙◀◀ (–), ▶▶❙ ▶▶ (+))**

㉕ **Play (◀ ▶)/SET button**

㉖ **MIC LEVEL 1, 2 control**
(one only on CL-J35LD U.S. model)

㉗ **MIC jack 1, 2 (one only on CL-J35LD U.S. model)**
MC jack (CL-J75LD, CL-J55LD)

㉘ **Remote control sensor**

㉙ **Tape I cassette door**

㉚ **Display**

㉛ **Tape II cassette door**

㉜ **VOLUME control**

㉝ **One-touch KARAOKE button**

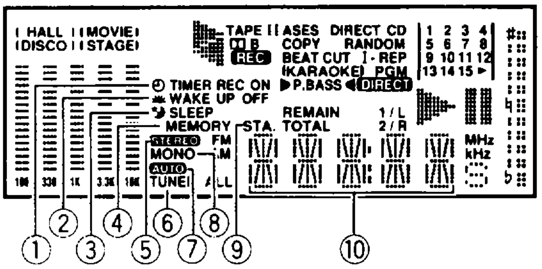
㉞ **KEY CONTROL button**
(CL-J75LD and CL-J55LD models only)

㉟ **ECHO LEVEL control**
(CL-J75LD and CL-J55LD models only)

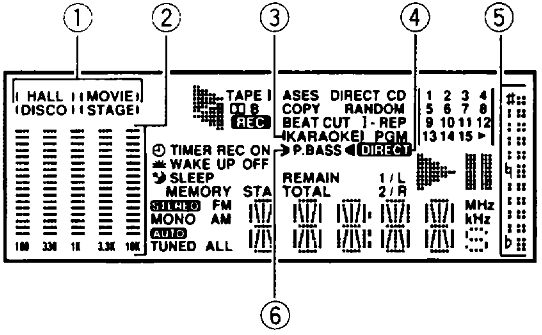
---

* For instructions regarding this section, see the auxiliary pro-logic operating instruction accompanying the CL-J75LD.

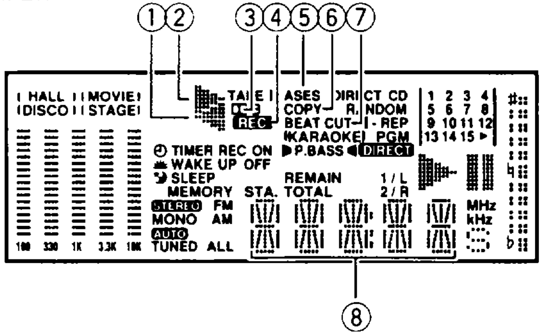
When Timer/Tuner is selected
Cuando se selecciona el temporizador/sintonizador
當選擇了定時器/調諧器時



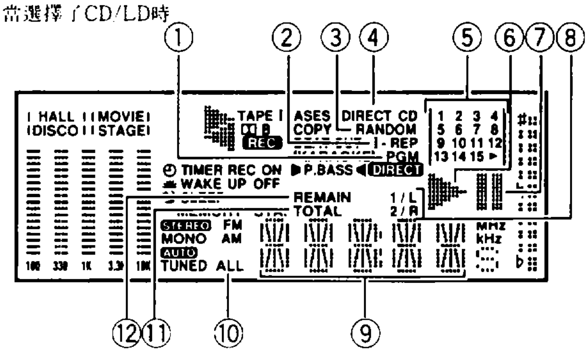
Tone/Volume controls
Controles de tono/volumen
音調/音量控制器



When cassette deck is selected
Cuando se selecciona la grabadora de casete
當選擇了卡式座時



When CD/LD is selected
Cuando se seleccionan discos CD/LD
當選擇了CD/LD時



FRONT PANEL FACILITIES

Display Section

When timer/tuner is selected

① Displays timer recording ON/OFF status
② Displays wakeup timer ON/OFF status
③ Displays sleep timer ON/OFF status
④ Lights when memorizing a broadcast station
⑤ Lights when a stereo broadcast is received
⑥ Lights during broadcast reception
⑦ Lights during auto tuning
⑧ Lights when MONO button is set to ON
⑨ Lights during station mode
⑩ Displays frequency and main operating statuses

Tone/Volume controls

① Selected SFC is indicated with ❙❙ mark
② Displays spectrum analyzer pattern
③ ❙❙ mark lights when one-touch karaoke button is set to ON
④ Lights when source direct button is set to ON
⑤ Displays key-control status (CL-J55LD/CL-J75LD models only)
⑥ ▶ ◀ (P.BASS 1) or ▮▶ ◀▮ (P.BASS 2) lights when P.BASS button is set to ON

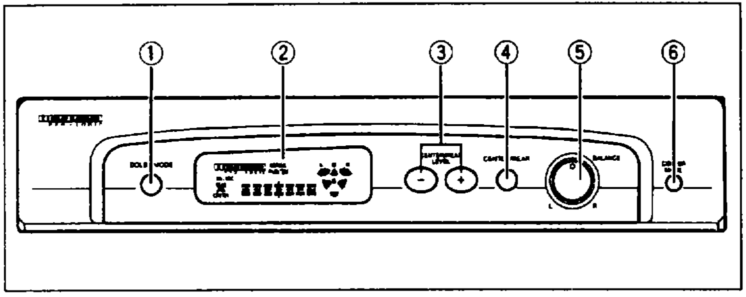
When cassette deck is selected

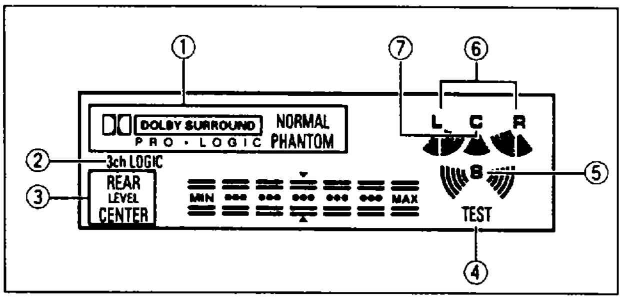
① TAPE II reverse direction
② TAPE II forward direction
③ DD B symbol lights when Dolby NR button is set to ON
④ Lights during tape recording.
⑤ Lights during ASES operation
⑥ Lights during tape copy
⑦ Lights when Beat Cut function is ON
⑧ Tape counter :
The numbers shown in this indicator change during tape travel, thus providing an indication of the position of programs on the cassette tape.

When CD/LD is selected

① Lights during program playback
② Lights during repeat mode
③ Lights during random playback
④ Lights when a CD is loaded in the tray
⑤ Visual calendar display :
Indicates disc track numbers; when a disc with 16 or more tracks is loaded, ► is displayed.
During program playback, only the numbers of the programmed tracks light. In the case of discs without a TOC (table of contents), only the disc's currently playing chapter number lights. When playback of the track is completed, the track or chapter number disappears.
⑥ Lights during playback; flashes during search mode
⑦ Lights during pause mode
⑧ Indicates audio output channels
⑨ Displays the frame number or elapsed time
⑩ Total remaining time on disc (ALL)
⑪ Total playing time of current disc side (TOTAL)
⑫ Remaining playing time on the track or chapter (REMAIN)

PANEL FACILITIES (CL–J75LD)


①
②
③
④
⑤
⑥
DOLBY MODE
CENTER/REAR LEVEL
CENTER/REAR
BALANCE
L
R
CENTER MODE


①
⑦
⑥
②
③
⑤
④
DOLBY SURROUND
NORMAL
PRO · LOGIC
PHANTOM
3ch LOGIC
REAR
LEVEL
CENTER
MIN
MAX
L
C
R
S
TEST

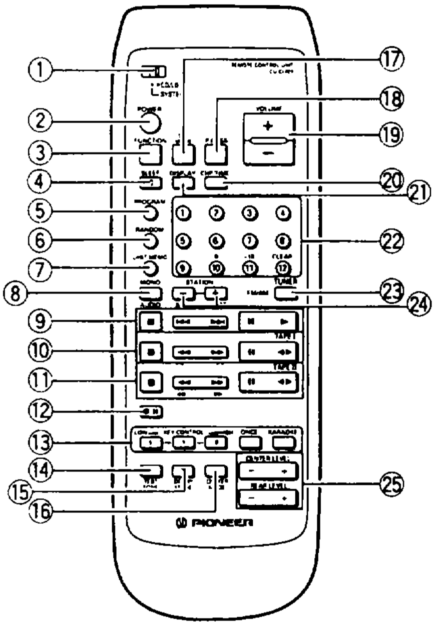
① DOLBY MODE button
② Display section
③ CENTER/REAR LEVEL (+, –) buttons
④ CENTER/REAR select button
⑤ Speaker BALANCE (L, R) control
⑥ CENTER MODE button

Display Section

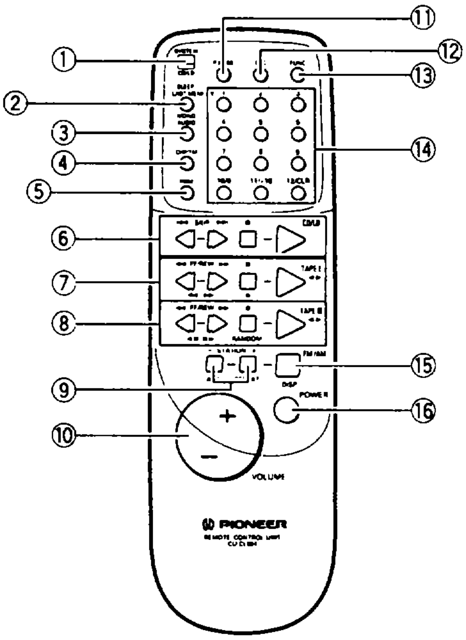
① Lights during use of DOLBY PROLOGIC SURROUND (NORMAL or PHANTOM).
② Lights during use of Dolby 3ch LOGIC.
③ Lights during setting of CENTER or REAR LEVEL.
④ Lights when the TEST TONE button is set to ON.
⑤ Lights when surround speakers are used.
⑥ Lights when front speakers are used.
⑦ Lights when center speaker is used.

REMOTE CONTROL UNIT

[CL-J75LD]


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
POWER
FUNCTION
PROGRAM
RANDOM
MONO
VOLUME
STATION
TUNER
TAPE I
TAPE II
KARAOKE
PIONEER

[CL-J35LD]
[CL-J55LD]


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
CD/LD
TAPE I
TAPE II
FM/AM
POWER
VOLUME
PIONEER

REMOTE CONTROL UNIT

[CL-J75LD]

① **CD/LD•SYSTEM selector switch**
② **POWER button**
③ **FUNCTION button (input selector button)**
The input function switches in the following order each time the button is pressed:

→TAPE I ——→TAPE II ——→TUNER
— AUX ←—— VIDEO←—— CD/LD ←

④ **SLEEP button**
⑤ **PROGRAM button**
⑥ **RANDOM button**
⑦ **LAST MEMORY button**
⑧ **MONO/AUDIO button (functions as AUDIO button when CD/LD•SYSTEM selector switch is set to CD/LD)**
⑨ **CD/LD operating buttons**
► : Play
❚❚ : Pause
⏮ ⏭ : Track search
■ : Stop
⑩ **TAPE I operation buttons**
◄► : Play
❚❚ : Pause
◄◄ ►► : Fast forward/rewind button (functions as fast forward/reverse button when CD/LD•SYSTEM selector switch is set to CD/LD).
■ : Stop
⑪ **TAPE II operation buttons**
◄► : Play
❚❚ : Pause
◄◄ ►► : Fast forward/rewind button (functions as still/frame advance button when CD/LD•SYSTEM selector switch is set to CD/LD).
■ : Stop
⑫ **●❚❚ Recording standby button**
⑬ **KARAOKE buttons (KEY CONTROL, ONCE, KARAOKE)**
⑭ **TEST TONE button**
⑮ **DOLBY MODE button**
⑯ **CENTER MODE button**
⑰ **SFC MODE button**
⑱ **P.BASS button**
⑲ **VOLUME control button (+/–)**
⑳ **Chapter/time button (CHP/TIME)**
㉑ **DISPLAY button**
㉒ **Number buttons**
㉓ **FM/AM button**
㉔ **STATION (+, –) buttons (functions as REPEAT A-B button when CD/LD•SYSTEM selector switch is set to CD/LD).**
㉕ **Surround adjust buttons**
CENTER LEVEL (–/+)
REAR LEVEL (–/+)

[CL-J35LD/CL-J55LD]

① **CD/LD•SYSTEM selector switch**
② **SLEEP/LAST MEMORY button (functions as LAST MEMORY button when CD/LD•SYSTEM selector switch is set to CD/LD).**
③ **MONO/AUDIO button (functions as AUDIO button when CD/LD•SYSTEM selector switch is set to CD/LD)**
④ **Chapter/time button (CHP/TM)**
⑤ **Program button (PGM)**
⑥ **CD/LD operating buttons**
► : Play
⏮ SKIP ⏭ : Track search
■ : Stop
⑦ **TAPE I operation buttons**
◄► : Play
◄◄ FF/REW ►► : Fast forward/rewind button (functions as fast forward/reverse (◄◄ ►►) button when CD/LD•SYSTEM selector switch is set to CD/LD).
■ : Stop (functions as pause (❚❚) button when CD/LD•SYSTEM selector switch is set to CD/LD).
⑧ **TAPE II operation buttons**
◄► : Play
◄◄ FF/REW ►► : Fast forward/rewind button (functions as still/frame advance (◄❚❚ ❚❚►) button when CD/LD•SYSTEM selector switch is set to CD/LD).
■ : Stop (functions as RANDOM button when CD/LD•SYSTEM selector switch is set to CD/LD).
⑨ **STATION (+, –) buttons (functions as REPEAT A-B button when CD/LD•SYSTEM selector switch is set to CD/LD).**
⑩ **VOLUME control button (+/–)**
⑪ **P.BASS button**
⑫ **SFC button**
⑬ **FUNCTION button (input selector button)**
The input function switches in the following order each time the button is pressed:

→TAPE I ——→TAPE II ——→TUNER
— AUX ←—— VIDEO←—— CD/LD ←

⑭ **Number buttons**
⑮ **FM/AM button (functions as DISPLAY button when CD/LD•SYSTEM selector switch is set to CD/LD).**
⑯ **POWER button**

13. SPECIFICATIONS

Amplifier

[CL-J75LD]

FRONT

Continuous Average Power Output is 35 Watts* per channel, min, at 6 ohms from 70 Hz to 20,000 Hz with no more than 0.9% total harmonic distortion.**

Continuous power output (RMS)	55 W + 55W (1 kHz, T.H.D. 10 %, 6 Ω)
Peak music power	1,000 W
REAR	
Continuous power output (RMS)	7.5 W + 7.5 W (1 kHz, T.H.D. 10 %, 16 Ω)
CENTER	
Continuous power output (RMS)	15 W (1 kHz, T.H.D. 10 %, 8 Ω)

[CL-J55LD]

Continuous Average Power Output is 35 Watts* per channel, min, at 6 ohms from 70 Hz to 20,000 Hz with no more than 0.9% total harmonic distortion.**

Continuous power output (RMS)	55 W + 55W (1 kHz, T.H.D. 10 %, 6 Ω)
Peak music power	800 W

[CL-J35LD]

Continuous Average Power Output is 33 Watts* per channel, min, at 8 ohms from 70 Hz to 20,000 Hz with no more than 0.9% total harmonic distortion.**

Continuous power output (RMS)	50 W + 50W (1 kHz, T.H.D. 10 %, 8 Ω)
Peak music power	750 W

(U.S. model only)

Continuous Average Power Output is 35 Watts* per channel, min, at 6 ohms from 70 Hz to 20,000 Hz with no more than 0.9% total harmonic distortion.**

Continuous power output (RMS)	55 W + 55W (1 kHz, T.H.D. 10 %, 6 Ω)

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rules on Power Output Claims for Amplifiers.*

** *Measured By Audio Spectrum Analyzer.*

FM tuner

Frequency range	87.5 — 108 MHz
Antenna Input	75Ω unbalanced

AM tuner

Frequency range	
9 kHz step	531 kHz — 1,602 kHz
10 kHz step	530 kHz — 1,700 kHz
Antenna	Loop antenna

Spectrum analyzer

Central frequencies	100Hz, 330Hz, 1kHz, 3.3kHz, 10kHz

Stereo double cassette deck

Tracks	4-track, 2-channel stereo
Frequency response	
Type II (High-position, CrO_2)	20Hz — 16,000Hz ±6dB (except for general export model CL-J35LD)
Type I (Normal)	20Hz — 16,000Hz ±6dB
Signal-to-Noise ratio (Peak recording level, audible compensation)	56dB
DOLBY "B" NR ON	10dB improvement at 5kHz

Compatible LaserDisc Player

Type	LaserDisc and Compact Disc digital audio system.
Laser used	Semiconductor laser, wavelength 780nm
Permissible operating temperature range	+5°C — +35°C (41°F — 95°F)
Permissible operating humidity	5% — 85% (without condensation)

Audio output

Channels	2 channel
Digital response	
Frequency response	4Hz — 20kHz, +0dB, −1.3dB (EIAJ)
Signal-to-Noise ratio	100dB (EIAJ)
Dynamic range	96dB (EIAJ)

Video output (Two sets can be connected to CL-J55LD/CL-J75LD.) (Only one set can be connected to CL-J35LD.)

Output level	1Vp-p (75Ω load, synch)
Output jacks	Pin jacks

Electrical, etc.

Power requirements	
Singapore model	110-115, 120, 220-230, 240V, 50/60Hz
Other model	110-115, 120-127, 220-230, 240V, 50/60Hz
U.S. model	120V, 60Hz
Power consumption	
CL-J35LD	240 W
(U.S. model only)	135 W
CL-J55LD	290 W
CL-J75LD	330 W
Dimensions	
External dimensions	320 (W) x 290 (H) x 403 (D) mm 12-9/16 (W) x 11-7/16 (H) x 15-13/16 (D) in. (CL-J35LD/CL-J55LD) 320 (W) x 350 (H) x 403 (D) mm (CL-J75LD)
Weight	11.6 kg (25 lb 6 oz) (CL-J35LD/CL-J55LD) 12.2 kg (26 lb 9 oz) (CL-J75LD)

Accessories

Operating Instructions	1
FM antenna	1
AM loop antenna	1
Remote control unit	1
Batteries (AAA/R03)	2
Video cable	1

NOTE:

Specifications and design subject to possible modification without notice due to improvements.